Form 3160-3 (August 2007)

#### **UNITED STATES** DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0136 Expires July 31, 2010

5.	Lease Serial No.
	UTU64422

BORLAG OF LAND	UTU64422			
APPLICATION FOR PERMIT	TO DRILL OR REENTER	6. If Indian, Allottee or Tribe	Name	
1a. Type of Work: ☑ DRILL ☐ REENTER		7. If Unit or CA Agreement, BADLANDS UNIT	Name and No.	
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Oth	er 🗖 Single Zone 🔀 Multiple Zone	8. Lease Name and Well No. HOSS 71-33		
	MARY A. MAESTAS aestas@eogresources.com	9. API Well No. 43047-	39714	
3a. Address 1060 EAST HIGHWAY 40 VERNAL, UT 84078	3b. Phone No. (include area code) Ph: 303-824-5526	10. Field and Pool, or Explore NATURAL BUTTES/V	atory	
4. Location of Well (Report location clearly and in accorda	nce with any State requirements.*)	11. Sec., T., R., M., or Blk. ar	nd Survey or Area	
At surface SWSW 709FSL 190FWL 4	0.07394 N Lat, 109.34086 W Lon	Sec 33 T8S R23E Me	r SLB	
At proposed prod. zone SWSW 709FSL 190FWL 4	0.07394 N Lat, 109.34086 W Lon			
14. Distance in miles and direction from nearest town or post of 35.4 MILES SOUTH OF VERNAL, UTAH	12. County or Parish UINTAH	13. State UT		
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)	16. No. of Acres in Lease	17. Spacing Unit dedicated to	this well	
659' LEASE LINE	2480.00	40.00		
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. on file		
1540'	9640 MD	NM2308		
21. Elevations (Show whether DF, KB, RT, GL, etc. 4972 GL	22. Approximate date work will start	23. Estimated duration 45 DAYS		
	24. Attachments			
The following, completed in accordance with the requirements or	f Onshore Oil and Gas Order No. 1, shall be attached to t	his form:		
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest Syst SUPO shall be filed with the appropriate Forest Service Off</li> </ol>	Item 20 above). 5. Operator certification	ons unless covered by an existing formation and/or plans as may be	·	
25. Signature (Electronic Suprniesion) (A. Maria		Date 10/15/2007		
Title REGULATORY ASSISTANT	gen and a			
Approved by (Signature)	oved by (Signature) Name (Printed/Typed)			
Title	BRADLEY G. HILL		Mack OF	
	ENVIRONMENTAL MANAGER			
Application approval does not warrant or certify the applicant ho operations thereon.  Conditions of approval, if any, are attached.	lds legal or equitable title to those rights in the subject le	ase which would entitle the appl	icant to conduct	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, r	nake it a crime for any person knowingly and willfully to	make to any department or age	ncy of the United	

Additional Operator Remarks (see next page)

States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Electronic Submission #56763 verified by the BLM Well Information System RECEIVED For EOG RESOURCES, INC., sent to the Vernal

OCT 17 2007

DIV. OF OIL, GAS & MINING

Faderal Approval of this Action is Necessary

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

641538X 44370754 40. 673951 -104.340161

#### T8S, R23E, S.L.B.&M. EOG RESOURCES, INC. Well location, HOSS #71-33, located as shown N89'58'W - 5294.52' (G.L.O.) in the SW 1/4 SW 1/4 of Section 33, T8S, 1916 Brass Cap R23E, S.L.B.&M., Uintah County, Utah. 1.2' High, Pile of Stones (C.L.O.) BASIS OF ELEVATION BENCH MARK 20EAM LOCATED IN THE SE 1/4 OF SECTION 35, T8S, R21E, S.L.B.&M., TAKEN FROM THE OURAY SE, 2640.00 QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4697 FEET. BASIS OF BEARINGS N00.03'W BASIS OF BEARINGS IS A G.P.S. OBSERVATION. 1916 Brass Cap 0.9' High W.50.80.00N NOO'08'49"W 2636.53' (Mea SCALE HOSS #71-33 CERTIFICATE Elev. Ungraded Ground = 4973' THIS IS TO CERTIFY THAT THE AND 190'-FIELD NOTES OF ACTUAL SURVEY BY ME OF SUPERVISION AND THAT THE THE AND THE TRUE AND BEST OF MY KNOWLEDGE AND 1977 Brass Cap 1977 Brass Cap 0.7' High, Set 0.7' High, Small Pile of Stones T8S Stone N89'57'19"W - 2644.78' (Meas.) S89'48'31"W - 2641.53' (Meas.) *T9S* 1977 Brass Cap REVISED: 07-17-07 0.5' High, Pile of Stones Untah Engineering & Land SURVEYING 85 SOUTH 200 EAST - VERNAL, UTAH 84078 LEGEND: (NAD 83) (435) 789-1017 LATITUDE = 40'04'26.17" (40.073936)SCALE DATE SURVEYED: = 90° SYMBOL LONGITUDE = 109'20'27.09" (109.340858) DATE DRAWN: 1" = 1000'03-20-07 03-22-07 (NAD 27) = PROPOSED WELL HEAD. PARTY REFERENCES LATITUDE = $40^{\circ}04^{\circ}26.30^{\circ}$ (40.073972) T.A. E.D. P.M. G.L.O. PLAT LONGITUDE = 109'20'24.64" (109.340178) SECTION CORNERS LOCATED. WEATHER FILE

COOL

EOG RESOURCES, INC.

## STATE OF COLORADO)

) ss

## COUNTY OF DENVER)

## **VERIFICATION**

Mary A. Maestas, of lawful age, being first duly sworn upon oath, deposes and says:

She is a Regulatory Assistant of EOG Resources, Inc., of Denver, Colorado. EOG Resources, Inc. is the operator of the following described well:

## HOSS 71-33 709' FSL – 190' FWL (SWSW) SECTION 33, T8S, R23E UINTAH COUNTY, UTAH

EOG Resources, Inc., and Encana Oil & Gas (USA) Inc., Exhibit A, are the only owners in the well and/or of all contiguous oil and gas leases or drilling units overlying the pool.

On the 10<sup>th</sup> day of October, 2007 she placed in the United States mail, with postage prepaid, a copy of the attached Application for Commingling in one wellbore for the subject well.

Said envelope, which contained these instruments, was addressed to the Utah Division of Oil, Gas & Mining, Bureau of Land Management, and Encana Oil & Gas (USA) Inc.

Further affiant saith not.

Mary A. Maestas

Regulatory Assistant

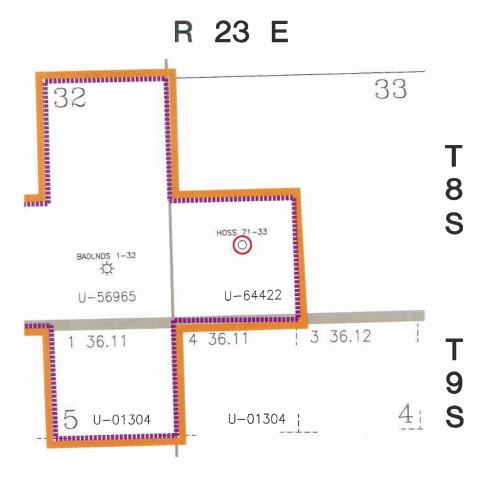
Subscribed and sworn before me this 10<sup>th</sup> day of October, 2007.

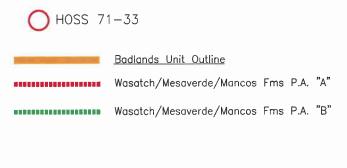
My Commission Expires:

June 25, 2011

# Exhibit "A" to Affidavit Hoss 71-33 Application to Commingle

Encana Oil & Gas (USA) Inc. 370 17th Street, Suite 1700 Denver, Colorado 80202 Attn: Mr. Barrett Brannon





Scale: 1"=1000'

1/4

1/2 Mile



## <u>HOSS 71-33</u> SW/SW, SEC. 33, T8S, R23E, S.L.B.&M.. UINTAH COUNTY, UTAH

## 1. & 2. ESTIMATED TOPS & ANTICIPATED OIL, GAS, & WATER ZONES:

FORMATION	TVD-RKB (ft)	Objective	Lithology	
Green River	2,090		Shale	
Wasatch	5,011	Primary	Sandstone	Gas
Chapita Wells	5,637	Primary	Sandstone	Gas
Buck Canyon	6,240	Primary	Sandstone	Gas
North Horn	6,906	Primary	Sandstone	Gas
KMV Price River	7,400	Primary	Sandstone	Gas
KMV Price River Middle	8,208	Primary	Sandstone	Gas
KMV Price River Lower	9,063	Primary	Sandstone	Gas
Sego	9,440		Sandstone	
TD	9,640			

Estimated TD: 9,640' or 200'± below Sego top

Anticipated BHP: 5,264 Psig

- 1. Fresh Waters may exist in the upper, approximately 1,000 ft  $\pm$  of the Green River Formation, with top at about 2,000 ft  $\pm$ .
- 2. Cement isolation is installed to surface of the well isolating all zones by cement.

EOG Resources, Inc. requests authorization for commingling of production from the Wasatch and Mesaverde formations in the referenced wellbore. In the event allocation of production is necessary, the allocation will be based on proportionate net pay as calculated from cased-hole logs. Production from the Wasatch and Mesaverde formations will be commingled in the wellbore and produced through open-ended 2-3/8" tubing landed below all perforations in the 4-1/2" production casing.

Attached is a map showing the location of all wells on contiguous oil and gas leases or drilling units and an affidavit showing that this application has been provided to owners of all contiguous oil and gas leases or drilling units overlying the pool.

3. PRESSURE CONTROL EQUIPMENT:

Production Hole – 5000 Psig BOP schematic diagrams attached.

4. CASING PROGRAM:

## HOSS 71-33 SW/SW, SEC. 33, T8S, R23E, S.L.B.&M.. UINTAH COUNTY, UTAH

322,000#	1720 DCI							<u>Size</u>	CASING
1	1730 PSI	770 PSI	STC	H-40	48.0#	13 3/8"	0 – 45'	17 ½"	Conductor
394,000#	3520 Psi	2020 PSI	STC	J-55	36.0#	9-5/8"	0 – 2,300' KB±	12 ¼"	Surface
279,000#	10,690 Psi	7560 PSI	LTC	P-110	11.6#	4-1/2"	Surface – TD	<b>7-7/8</b> "	Production
	10,690 Psi		LTC	P-110	11.6#	4-1/2"	Surface - TD	7-7/8"	Production

Note: 12-1/4" surface hole will be drilled to a total depth of 200'± below the base of the Green River lost circulation zone and cased w/9-5/6" as shown to that depth. Drilled depth may be shallower or deeper than the 2300' shown above depending on the actual depth of the loss zone.

## All casing will be new or inspected.

## 5. Float Equipment:

## Surface Hole Procedure (0'- 2300'±)

Guide Shoe

Insert Float Collar (PDC drillable)

Centralizers: 1-5' above shoe, top of jts. #2 and #3 then every 5<sup>th</sup> joint to surface. (15 total)

## Production Hole Procedure (2300'± - TD):

Float shoe, 1 joint casing, float collar and balance of casing to surface. 4-½", 11.6#, N-80 or equivalent marker collars or short casing joints to be placed at top of Price River and 400' above top of Wasatch. Centralizers to be placed 5' above shoe on joint #1, top of joint #2, and every 2nd joint to 400' above Wasatch Island top. Thread lock float shoe, top and bottom of float collar, and top of 2<sup>nd</sup> joint.

## 6. MUD PROGRAM

## Surface Hole Procedure (Surface - 2300'±):

Air/air mist or aerated water.

<u>Production Hole Procedure (2300' $\pm$  - TD):</u> Anticipated mud weight 9.5 – 10.5 ppg depending on actual wellbore conditions encountered while drilling.

2300'±-TD A closed mud system will be utilized. A bentonite gelled water mud system will be used to control viscosity w/PHPA polymer used for supplemental viscosity and clay

## HOSS 71-33 SW/SW, SEC. 33, T8S, R23E, S.L.B.&M.. UINTAH COUNTY, UTAH

encapsulation/inhibition. Water loss will be maintained at <15cc's using white starch or PAC. Bactericides will be used as needed. Anticipated pH will range from 9.0-10.0. Mud weight will be adjusted as necessary for well control. Deflocculants/thinners will be used as necessary to maintain mud quality. LCM sweeps will be utilized as necessary to control lost circulation and mud loss. CO2 contamination, if encountered, will be treated with lime and gypsum.

## 7. VARIANCE REQUESTS:

Reference: Onshore Oil and Gas Order No. 2 – Item E: Special Drilling Operations

EOG Resources, Inc. requests a variance to regulations requiring the blooie line to be 100' in length. Due to reduce location excavation, the blooie line will be approximately 75' in length

## 8. EVALUATION PROGRAM:

**Logs:** Mud log from base of surface casing to TD.

Cased-hole Logs: Cased-hole logs will be run in lieu of open-hole logs consisting of the following:

Cement Bond / Casing Collar Locator and Pulsed Neutron

## 9. CEMENT PROGRAM:

## Surface Hole Procedure (Surface - 2300'±):

**Lead:** 185 sks Class "G" cement with 16% Gel, 10 #/sx Gilsonite, 3% Salt, 2% CaCl<sub>2</sub>, 3 lb/sx GR3 ½ #/sx Flocele mixed at 11 ppg, 3.82 ft<sup>3</sup>/sk. yield, 23 gps water.

<sup>1</sup>/<sub>4</sub> #/sx Flocele mixed at 11 ppg, 3.82 π /sk. yield, 23 gps water.

Tail: 207 sks Class "G" cement with 2% CaCI<sub>2</sub>, ¼#/sk Flocele mixed at 15.6 ppg, 1.18 ft<sup>3</sup>/sk., 5.2

gps water.

**Top Out**: As necessary with Class "G" cement with 2% CaCl<sub>2</sub>, ¼#/sk Flocele mixed at 15.6 ppg, 1.18

ft<sup>3</sup>/sk., 5.2 gps water.

**Note:** Cement volumes will be calculated to bring lead cement to surface and tail cement to

500'above the casing shoe.

#### Production Hole Procedure (2300'± - TD)

**Lead:** 156 sks: Hi-Lift "G" w/12% D20 (Bentonite), 1% D79 (Extender), 5% D44

## <u>HOSS 71-33</u> SW/SW, SEC. 33, T8S, R23E, S.L.B.&M.. UINTAH COUNTY, UTAH

(Salt),0.2% D46 (Antifoam), 0.25% D112 (Fluid Loss Additive), 0.25 pps D29 (cello flakes) mixed at 11.0 ppg, 3.91 ft<sup>3</sup>/sk., 24.5 gps water.

Tail:

902 sks: 50:50 Poz "G" w/ 2% D20 (Bentonite), 0.1% D46 (Antifoam), 0.075% D13

(Retarder), 0.2% D167 (Fluid Loss Additive), 0.2% D65 (Dispersant), mixed at

14.1 ppg, 1.28 ft<sup>3</sup>/sk., 5.9gps water.

Note:

The above number of sacks is based on gauge-hole calculation.

Lead volume to be calculated to bring cement to 200'± above 9-5/8" casing shoe. Tail volume to be calculated to bring cement to 400'± above top of Wasatch.

Final Cement volumes will be based upon gauge-hole plus 45% excess.

## 10. ABNORMAL CONDITIONS:

## Surface Hole (Surface - 2300'±):

Lost circulation

#### Production Hole (2300' $\pm$ - TD):

Sloughing shales, lost circulation and key seat development are possible in the Wasatch Formation.

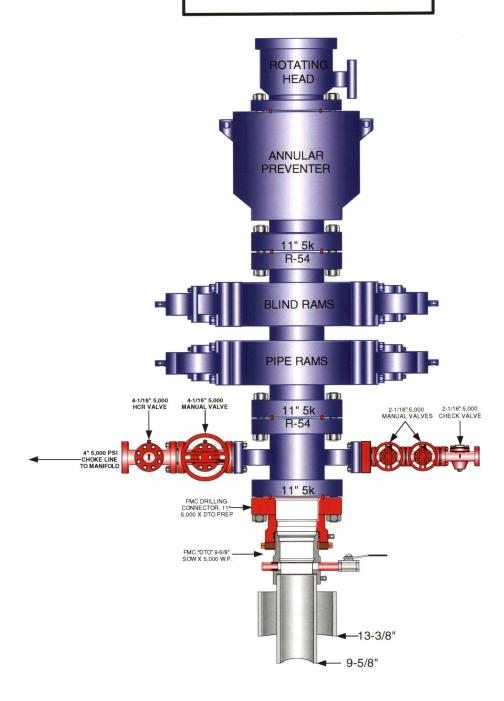
## 11. STANDARD REQUIRED EQUIPMENT:

- A. Choke Manifold
- B. Upper and Lower Kelly Cock
- C. Stabbing Valve
- D. Visual Mud Monitoring

## 12. HAZARDOUS CHEMICALS:

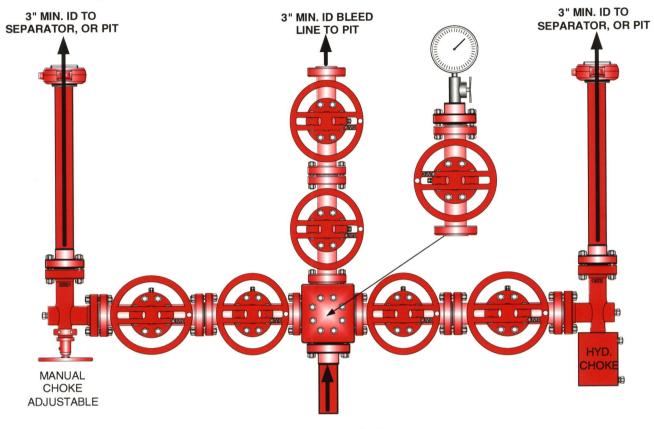
No chemicals subject to reporting under SARA title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

(Attachment: BOP Schematic Diagram)



#### PAGE 2 0F 2

# EOG RESOURCES CHOKE MANIFOLD CONFIGURATION W/ 5,000 PSI WP VALVES



4" 5,000 PSI CHOKE LINE FROM HCR VALVE

## **Testing Procedure:**

- 1. BOP will be tested with a professional tester to conform to Onshore Order #2.
- 2. Blind and Pipe rams will be tested to rated working pressure, 5,000 psi.
- 3. Annular Preventer will be tested to 50% working pressure, 2,500 psi. Casing will be tested to 0.22 psi / ft. or 1,500 psi. Not to exceed 70% of burst strength, whichever is greater.
- 4. All lines subject to well pressure will be tested to the same pressure as blind and pipe rams.
- 5. All BOPE specifications and configurations will meet Onshore Order #2 requirements.

# Seog resources

## Hoss 71-33 SWSW, Section 33, T8S, R23E Uintah County, Utah

## SURFACE USE PLAN

The well pad is approximately 325 feet long with a 246-foot width, containing 1.84 acres more or less. The well access road is approximately 100 feet long with a 40-foot right-of-way, disturbing approximately .09 acre. New surface disturbance associated with the well pad and access road is estimated to be 1.93 acres. The pipeline is approximately 724 feet long with a 40-foot right-of-way disturbing approximately .66 acre.

#### 1. Existing Roads:

- A. See attached Plats showing directional reference stakes on location, and attached TOPO Map "B" showing access to location from existing roads.
- B. The proposed well site is located approximately 35.4 miles south of Vernal, Utah See attached TOPO Map "A".
- C. Refer to attached Topographic Map "A" showing labeled access route to location.
- D. Existing roads will be maintained and repaired as necessary.

#### 2. PLANNED ACCESS ROAD:

- A. The access road will be approximately 100' in length, with one (1) 36" culvert installed if construction dictates. See attached Topo B.
- B. The access road has a 40-foot ROW w/18 foot running surface.
- C. Maximum grade of the new access road will be 8 percent.
- D. No turnouts will be required.
- E. Road drainage crossings shall be of the typical dry creek drainage crossing type.
- F. No bridges, or major cuts and fills will be required.
- G. The access road will be dirt surface.
- H. No gates, cattleguards, or fences will be required or encountered.
- 1. A 40-foot permanent right-of-way is requested. No surfacing material will be used.

 J. No additional storage areas will be needed for storing equipment, stockpiling, or vehicle parking.

All travel will be confined to existing access road rights-of-way.

New or reconstructed roads will be centerlined – flagged at time of location staking. Access roads and surface disturbing activities will conform to standards outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development, Fourth Edition and/or BLM Manual Section 9113 concerning road construction standards on projects subject to federal jurisdiction.

The road shall be constructed/upgraded to meet the standards of the anticipated traffic flow and all-weather road requirements. Construction/upgrading shall include ditching, draining, graveling, crowning, and capping the roadbed as necessary to provide a well constructed safe road. Prior to upgrading, the road shall be cleared of any snow cover and allowed to dry completely. Traveling off the 40-foot right-of-way will not be allowed. Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossing nor shall the roadbed block the drainages. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around then avoided.

As operator, EOG Resources, Inc. shall be responsible for all maintenance on cattleguards, or gates associated with this oil and/or gas operation.

Traveling off the 40-foot right-of-way will not be allowed. The access road and associated drainage structures will be constructed and maintained in accordance with road guidelines contained in the joint BLM/USFS publication: Surface Operating Standards for Oil and Gas Exploration and Development, Fourth Edition, and/or BLM Manual Section 9113 concerning road construction standards on projects subject to federal jurisdiction. During the drilling and production phase of operations, the road surface and shoulders will be kept in a safe and useable condition and drainage ditches and culverts will be kept clear and free flowing.

Approximately 60' of the proposed access road is located off-lease in Section 32, T8S, R23E (Federal Lease #U-56965). However, because this well is located within unit, an off-lease right-of-way is not required.

## 3. LOCATION OF EXISTING WELLS WITHIN A ONE-MILE RADIUS:

See attached TOPO map "C" for the location of wells within a one-mile radius.

## 4. LOCATION OF EXISTING AND/OR PROPOSED PRODUCTION FACILITIES:

#### A. On Well Pad

- 1. Production facilities will be set on location if the well is successfully completed for production. Facilities will consist of wellhead valves, combo separator-dehy unit with meter, two (2) 400-bbl vertical tanks and attaching piping.
- 2. Gas gathering lines A 4" gathering line will be buried from dehy to the edge of the location.

## B. Off Well Pad

- 1. Proposed pipeline will transport natural gas.
- 2. The pipeline will be a permanent feeder line.
- 3. The length of the proposed pipeline is 724' x 40'. The proposed pipeline leaves the eastern edge of the well pad (Lease UTU-64422) proceeding in a westerly direction for an approximate distance of 420' to Section 32, T8S, R23E (Lease U-65965) proceeding for an approximate distance of 304' tieing into an existing pipeline in the SESE of Section 32, T8S, R23E (Lease U-65965. Pipe will be 4" NOM, 0.156 wall, Grade X42, Zap-Lock, electric weld with a 35 mil X-Tru coating.
- 4. Proposed pipeline will be a 4" OD steel, zap-lok line laid on the surface
- 5. Proposed pipeline will be laid on surface.
- 6. Approximately 304' of the proposed pipeline is located off-lease in Section 32, T8S, R23E. However, since this well is located within unit, and off-lease right-of-way is not required.
- 7. The proposed pipeline route begins in the SWSW of Section 33, T8S, R23E, proceeding westerly for an approximate distance of 420' to the SESE of Section 33, T8S, R23E.
- 8. Pipeline will be coupled using the Zap lock method. No additional off-pad facilities will be required.

All permanent (on site for six months or longer) structures constructed or installed (including pumping units) will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities will be painted within 6 months of installation. All facilities will be painted with Carlsbad Canyon or Covert Green. Facilities required to comply with O.S.H.A. (Occupational Safety and Health Act) will be excluded.

## 5. LOCATION AND TYPE OF WATER SUPPLY:

- A. Water supply will be from Ouray Municipal Water Plant at Ouray, Utah, and/or Bonanza Power Plant water source in Sec 26, T8S, R23E, Uintah County, UT (State Water Right # 49-225(A31368)). Water will be hauled by a licensed trucking company.
- B. Water will be hauled by a licensed trucking company.
- C. No water well will be drilled on lease.

#### 6. Source of Construction Materials:

- A. All construction material for this pipeline will be of native borrow and soil accumulated during the construction of the location.
- B. No mineral materials will be required.

#### 7. METHODS OF HANDLING WASTE DISPOSAL:

## A. METHODS AND LOCATION

- 1. Cuttings will be confined in the reserve pit.
- 2. A portable toilet will be provided for human waste during the drilling and completion of the well. Disposal will be at the Vernal sewage disposal plant.
- 3. Burning will not be allowed. Trash and other waste material will be contained in a wire mesh cage and disposed of at the Uintah County Landfill.
- 4. Produced wastewater will be confined to a lined pit or storage tank for a period not to exceed 90 days after initial production. After the 90 day period, the produced water will be contained in a tank on location and then disposed of at one of the following locations: Natural Buttes Unit 21-20B SWD, Ace Disposal, CWU 550-30N SWD or EOG Resources, Inc. drilling operations (Chapita Wells Unit, Natural Buttes Unit & Stagecoach Unit).
- 5. All chemicals will be disposed of at an authorized disposal site. Drip pans and absorbent pads will be used on the drilling rig to avoid leakage of oil to the pit.
- B. Water from drilling fluids and recovered during testing operations will be disposed of by either evaporating in the reserve pit, through natural or artificial methods, or removed and disposed of at an authorized disposal site. Introduction of well bore hydrocarbons to the reserve pit will be avoided by flaring them off in the flare pit at the time of recovery.

The reserve pit will be constructed so as not to leak, break, or allow discharge. If the reserve pit requires padding prior to lining (due to rocky conditions) felt padding will be used.

The reserve pit shall be lined with felt, and a 16-millimeter plastic liner. Sufficient bedding (i.e. weed free straw, or hay; felt; polyswell or soil) will be used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash, scrap pipe, etc., that could puncture the liner will be disposed of in the pit. More stringent protective requirements may be deemed necessary by the A.O.

EOG Resources, Inc. maintains a file, per 29 CFR 1910.1200 (g) containing current Material Safety Data Sheets (MSDS) for all chemicals, compounds, and/or substances which are used during the course of construction, drilling, completion, and production operations for this project. Hazardous materials (substances) which may be found at the site may include drilling mud and cementing products which are primarily inhalation hazards, fuels (flammable and/or combustible), materials that may be necessary for well completion/ stimulation activities such as flammable or combustible substances and acids/gels (corrosives). The opportunity for Superfund Amendments and Reauthorization Act (SARA) listed Extremely Hazardous Substances (EHS) at the site is generally limited to proprietary treating chemicals. All hazardous and EHS and commercial preparations will be handled in an appropriate manner to minimize the potential for leaks or spills to the environment.

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completion of the well. Furthermore, extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will not be used, produced, stored, transported, or disposed of in association with the drilling, testing or completion of the well.

## 8. Ancillary Facilities:

None anticipated.

## 9. WELL SITE LAYOUT:

- A. Refer to attached well site plat for related topography cuts and fills and cross sections.
- B. Refer to attached well site plat for rig layout and soil material stockpile location as approved on On-site.
- C. Refer to attached well site plat for rig orientation, parking areas, and access road.

The reserve pit will be located on the southeast corner of the location. The flare pit will be located downwind of the prevailing wind direction on the south side of the location, a minimum of 100 feet from the wellhead and 30 feet from the reserve pit fence.

The stockpiled pit topsoil (first six inches) will be stored separate from the location topsoil west of pit corner B. The stockpiled location topsoil will be stored in a location providing easy access for interim reclamation and protection of the topsoil. Upon completion of construction, the stockpiled topsoil from the location will be broadcast seeded with the approved seed mixture from this location and then walked down with a Caterpillar tractor.

Access to the well pad will be from the west.

Diversion ditches shall be constructed on the north and south sides of the location.

The corners of the well pad will be rounded off as needed to minimize excavation.

Rip rap shall be used around Corner 2 to Corner 8 as needed.

## **FENCING REQUIREMENTS:**

All pits will be fenced according to the following minimum standards:

- A. Thirty-nine inch net wire shall be used with at least one strand of barbed wire on top of the net wire. (Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.)
- B. The net wire shall be no more than 2 inches above the ground. The barbed wire strand shall be 3 inches above the net wire. Total height of the fence shall be at least 42 inches.
- C. Corner posts shall be cemented and/or braced in such a manner as to keep the fence tight at all times.
- D. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distances between any two posts shall be no greater than 16 feet.
- E. All wire shall be stretched by using a stretching device before it is attached to the corner posts.

The reserve pit fencing will be on the three sides during drilling operations and on the fourth side when the rig moves off location. Pits will be fenced and maintained until clean-up.

Each existing fence to be crossed by the access road shall be braced and tied off before cutting so as to prevent slacking of the wire. The opening shall be closed temporarily as necessary during construction to prevent the escape of livestock, and, upon completion of construction, the fence shall be repaired to BLM or SMA specifications. A cattleguard with an adjacent 16 foot gate shall be installed in any fence where a road is regularly traveled. If the well is a producer, the cattleguards (shall/shall not) be permanently counted on concrete bases. Prior to crossing any fence located on Federal land, or any fence between Federal land and private land, the operator will contact the BLM, who will in turn contact the grazing permittee or owner of said fence and offer him/her the opportunity to be present when the fence is cut in order to satisfy himself/herself that the fence is adequately braced and tied off.

#### 10. Plans for Reclamation of the Surface:

A. Interim Reclamation (Producing Location)

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, trash, and junk not required for production.

Immediately upon well completion, any hydrocarbons on the pit shall be removed in accordance with CFR 3162.7-1.

If a plastic nylon reinforced liner is used, it shall be torn and perforated before backfilling of the reserve pit.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours—See attached Figure #3. The reserve pit will be reclaimed within 90 days from the date of the well completion, or as soon as environmental conditions allow. Before any dirt takes place, the reserve pit must be completely dry and free of all foreign obstacles.

The stockpiled pit topsoil will then be spread over the pit area and broadcast seeded with the prescribed seed mixture for this location. The seeded area will then be walked down with a cat.

Seed Mixture	Drilled Rate (lbs./acre PLS*)
HyCrest Wheatgrass	9.0
Prostrate Kochia	3.0

<sup>\*</sup>Pure live seed (PLS) formula: percent of purity of seed mixture times percent germination of seed mixture equals portion of seed mixture that is PLS.

### B. Dry Hole/Abandoned Location

At such time as the well is plugged and abandoned, the operator will submit a subsequent report of abandonment and the BLM will attach the appropriated surface rehabilitation conditions of approval.

Seed Mixture	Drilled Rate (lbs./acre PLS*)
Matt Saltbush	6.0

<sup>\*</sup>Pure live seed (PLS) formula: percent of purity of seed mixture times percent germination of seed mixture equals portion of seed mixture that is PLS.

#### 11. SURFACE OWNERSHIP:

Surface ownership of the proposed well site, access road, and pipeline route is as follows:

#### **Bureau of Land Management**

#### 12. OTHER INFORMATION:

- A. EOG Resources, Inc. will inform all persons in the area who are associated with this project that they are subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator will immediately stop work that might further disturb such materials, and contact the Authorized Officer. Within five working days the Authorized Officer will inform the operator as to:
  - Whether the materials appear eligible for the National Register of Historic Places;
  - The mitigation measures the operator will likely have to undertake before the site can be used.
  - A time frame for the Authorized Officer to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the Authorized Officer are correct and that mitigation is appropriate.

If the operator wished, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the Authorized Officer will assume responsibility for whatever recordation and stabilization of the exposed materials that may be required. Otherwise, the operator will be responsible for mitigation costs. The Authorized Officer will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the Authorized Officer that required mitigation has been completed, the operator will then be allowed to resume construction.

- B. As operator, EOG Resources, Inc. will control noxious weeds along Right-of-Ways for roads, pipelines, well sites, or other applicable facilities. A list of noxious weeds will be obtained from the BLM administered land, a Pesticide Use proposal shall be submitted, and given approval, prior to the application or herbicides or other pesticides or possible hazardous chemicals.
- C. Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on BLM lands after the conclusion of drilling operations or at any other time without BLM authorization. However, if BLM authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities. (The BLM does not seek to compete with private industry. There are commercial facilities available for stacking and storing drilling rigs.)
- D. The drilling rig and ancillary equipment will be removed from the location prior to commencement of completion operations. Completion operations will be conducted utilizing a completion/workover rig.

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice of Lessees. The operator is fully responsible for

the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Construction activity will not be conducted using frozen or saturated soils material or during periods when watershed damage is likely to occur.

If the existing access road, proposed access road, and proposed pad are dry during construction, drilling, and completion activities, water will be applied to help facilitate compaction during construction and to minimize soil loss as a result of wind erosion.

A cultural resources survey was conducted and submitted by Montgomery Archaeological Consultants on 8/31/2007. A paleontological survey was conducted and submitted by Intermountain Paleo on 9/12/2007.

## **Additional Surface Stipulations:**

None.

## LESSEE OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION:

## **PERMITTING AGENT**

Mary A. Maestas EOG Resources, Inc. P.O. Box 1815 Vernal, UT 84078 (435) 781-9111

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved plan of operations, and any applicable Notice to Lessees. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to insure compliance.

The operator or his/her contractor shall contact the BLM office at (435) 781-4400 forty-eight (48) hours prior to construction activities.

## **CERTIFICATION:**

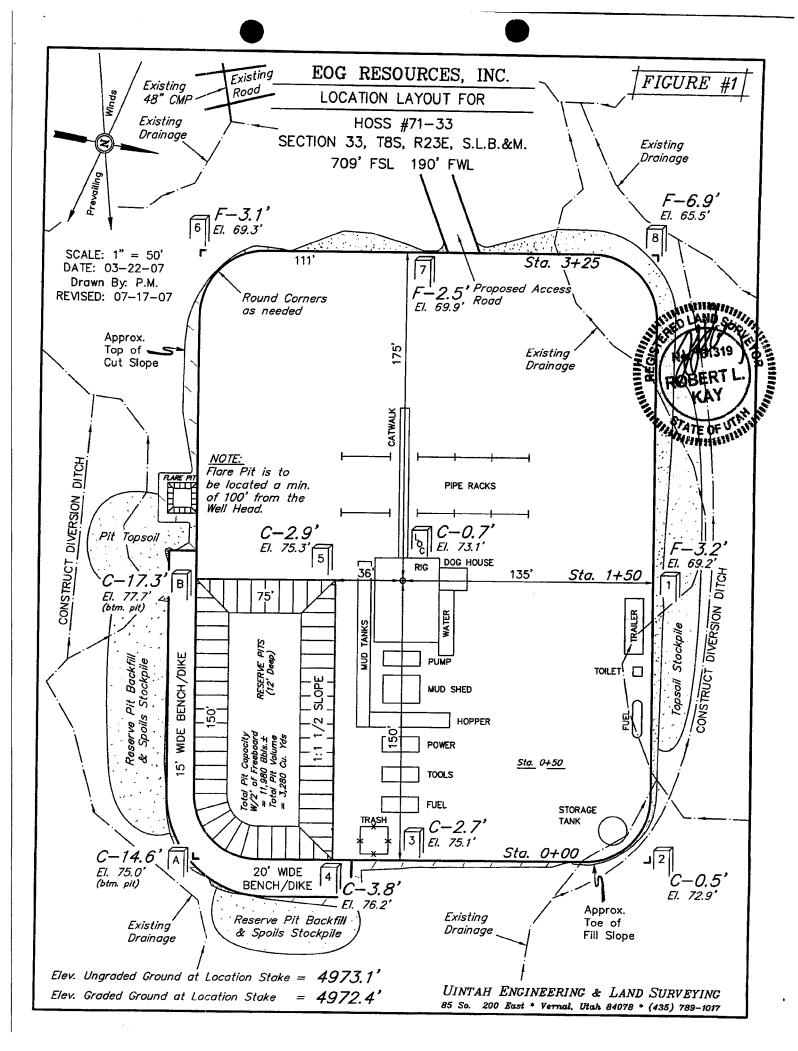
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by EOG Resources, Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

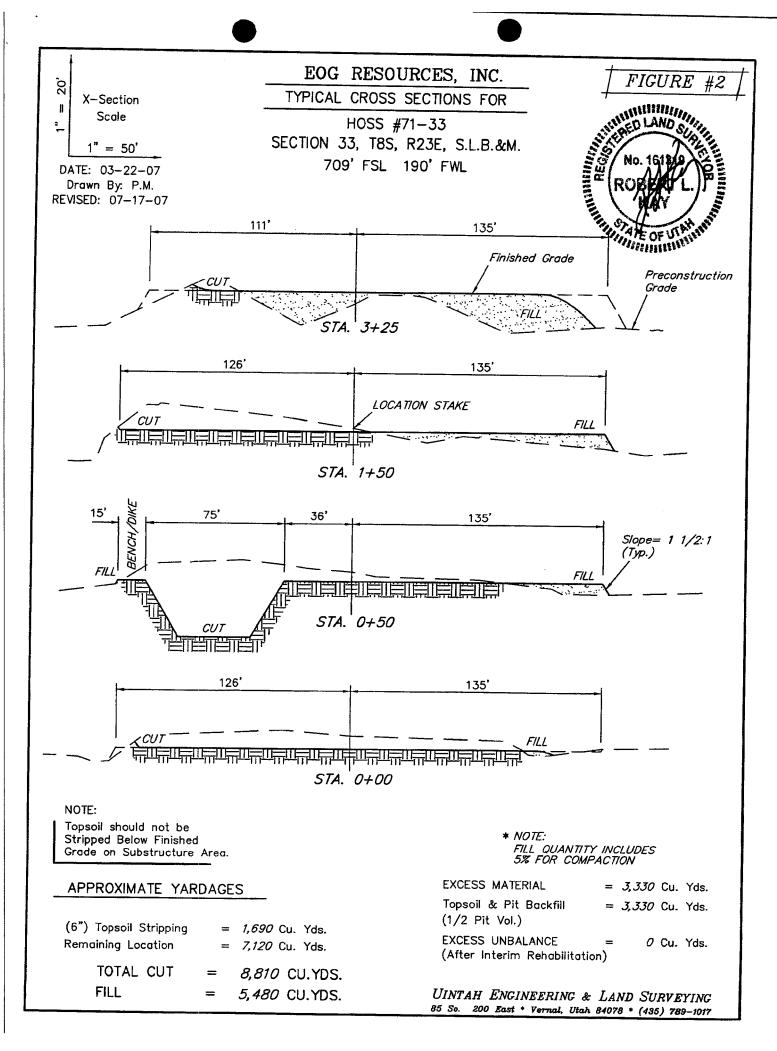
Please be advised that EOG Resources, Inc. is considered to be the operator of the Hoss 71-33 Well, located in the SWSW, of Section 33, T8S, R23E, Uintah County, Utah; Federal land and minerals; and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond Coverage is under Bond # NM 2308.

October 15, 2007 Date

lary A. Maestas, Regulatory Assistant

Date of onsite: September 6, 2007





# EOG RESOURCES, INC. PRODUCTION FACILITY LAYOUT FOR HOSS #71-33 SECTION 33, T8S, R23E, S.L.B.&M. 709' FSL 190' FWL SCALE: 1" = 50'DATE: 03-22-07 Drawn By: P.M. Access REVISED: 07-17-07 Road PWELL HEAD COMBO UNIT RE-HABED AREA

UINTAH ENGINEERING & LAND SURVEYING 85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

## EOG RESOURCES, INC.

HOSS #71-33

LOCATED IN UINTAH COUNTY, UTAH **SECTION 33, T8S, R23E, S.L.B.&M.** 



PHOTO: VIEW OF LOCATION STAKE FROM CORNER #5

**CAMERA ANGLE: NORTHERLY** 

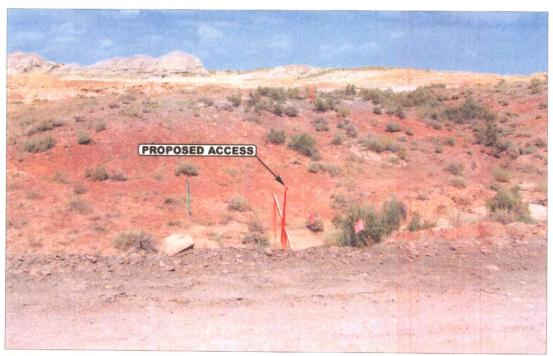


PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

**CAMERA ANGLE: NORTHEASTERLY** 

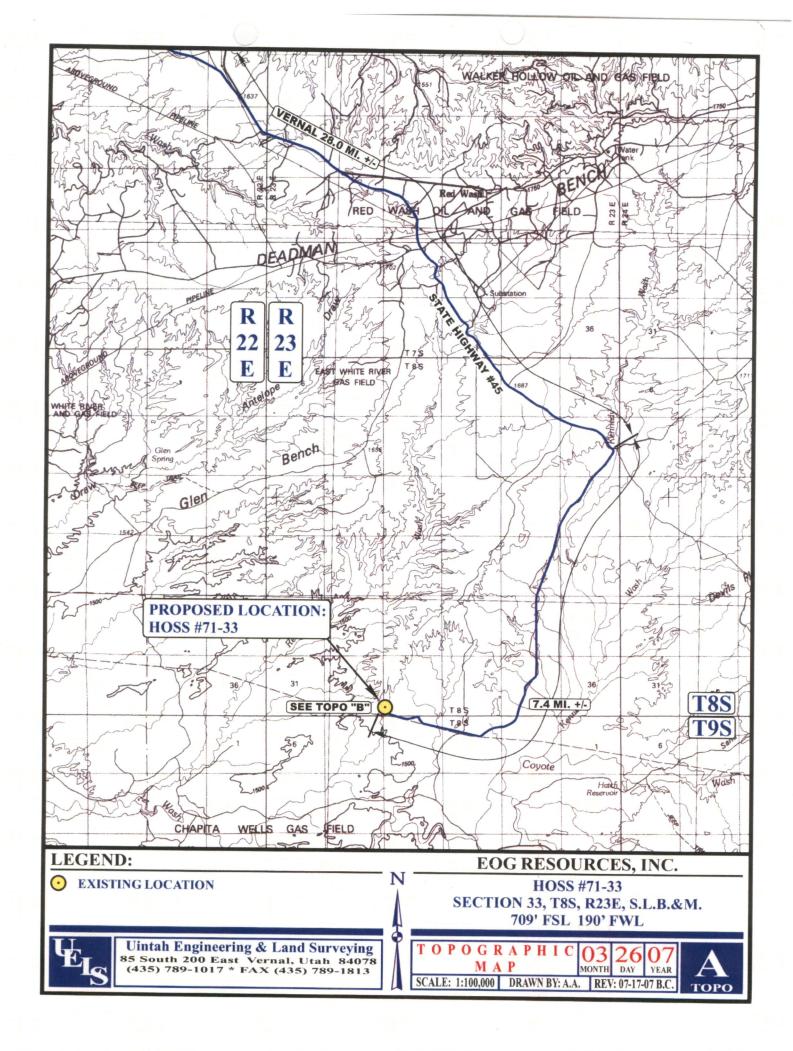


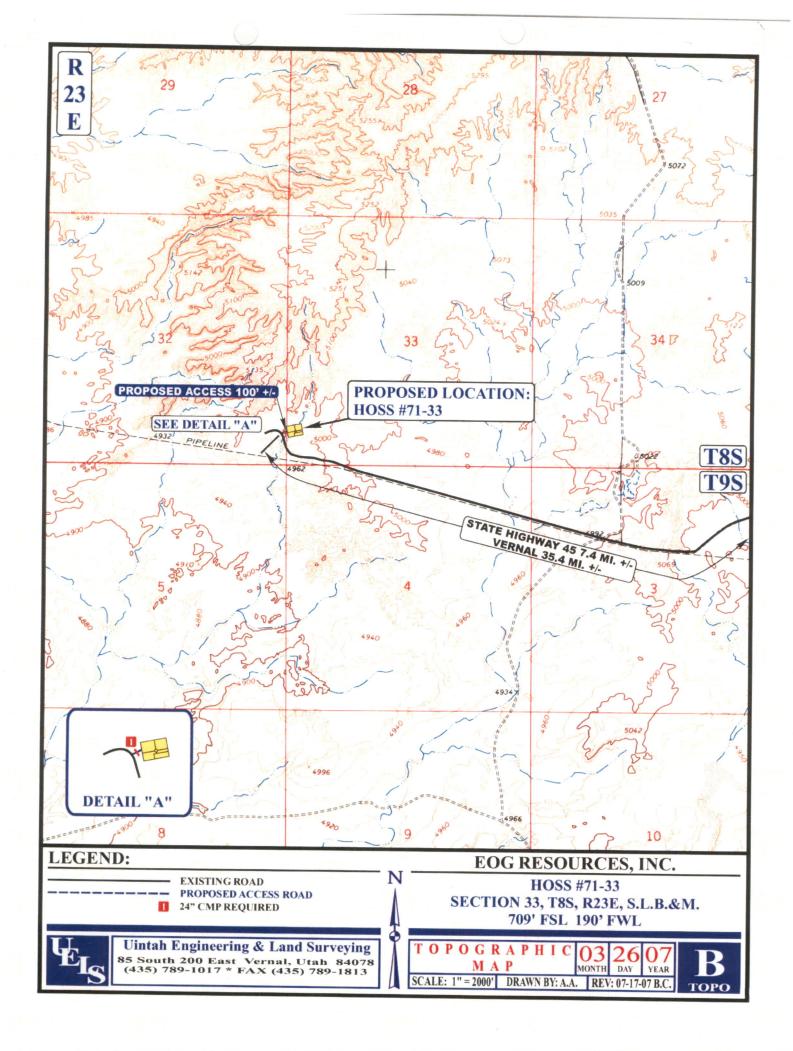
Uintah Engineering & Land Surveying

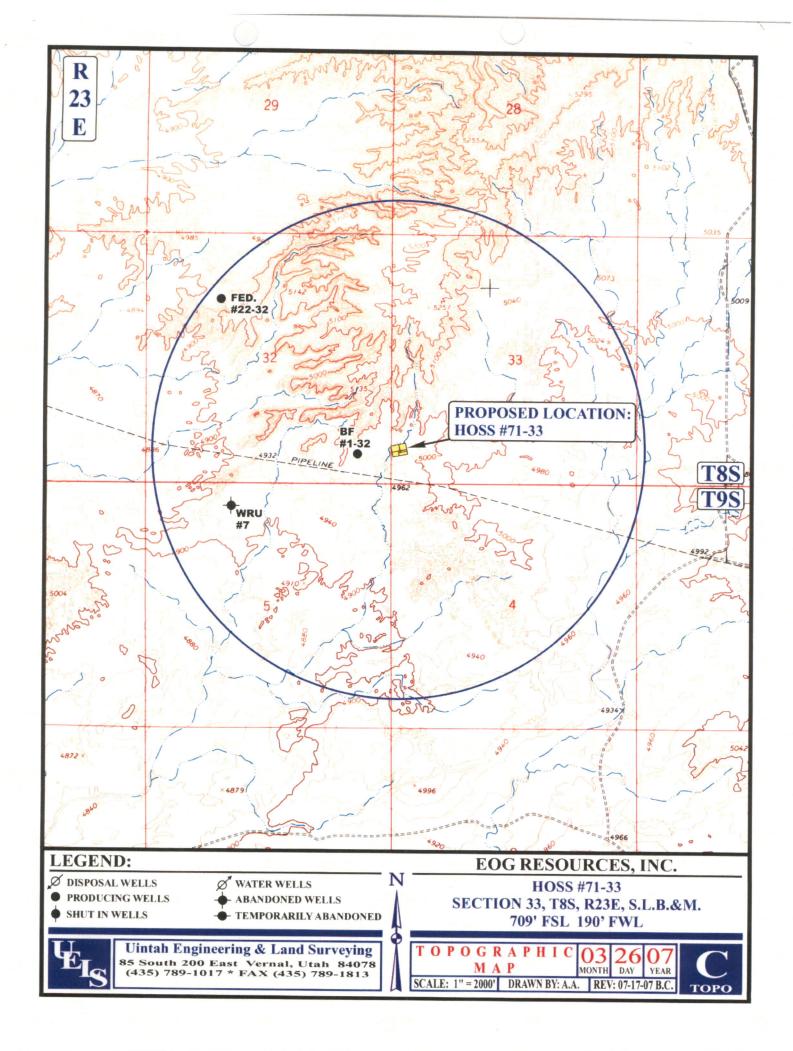
**LOCATION PHOTOS** 

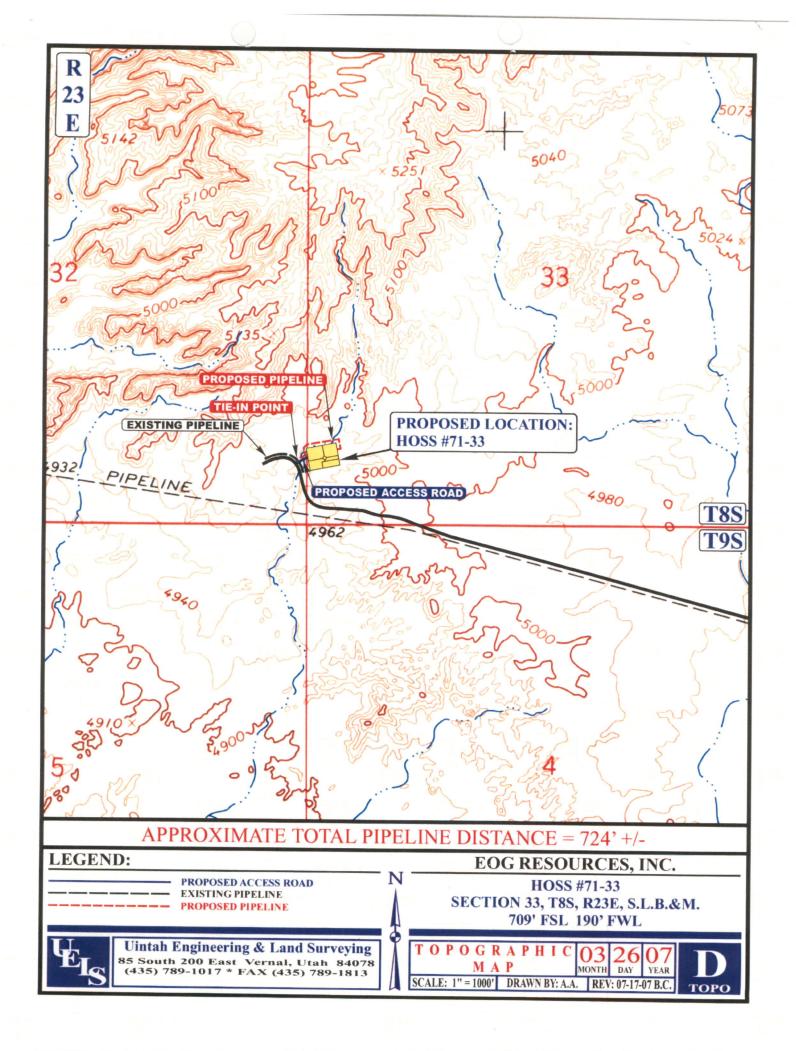
85 South 200 East Vernal, Utah 84078 435-789-1017 uels@uelsinc.com

TAKEN BY: G.S. DRAWN BY: A.A. REV: 07-17-07 B.C.



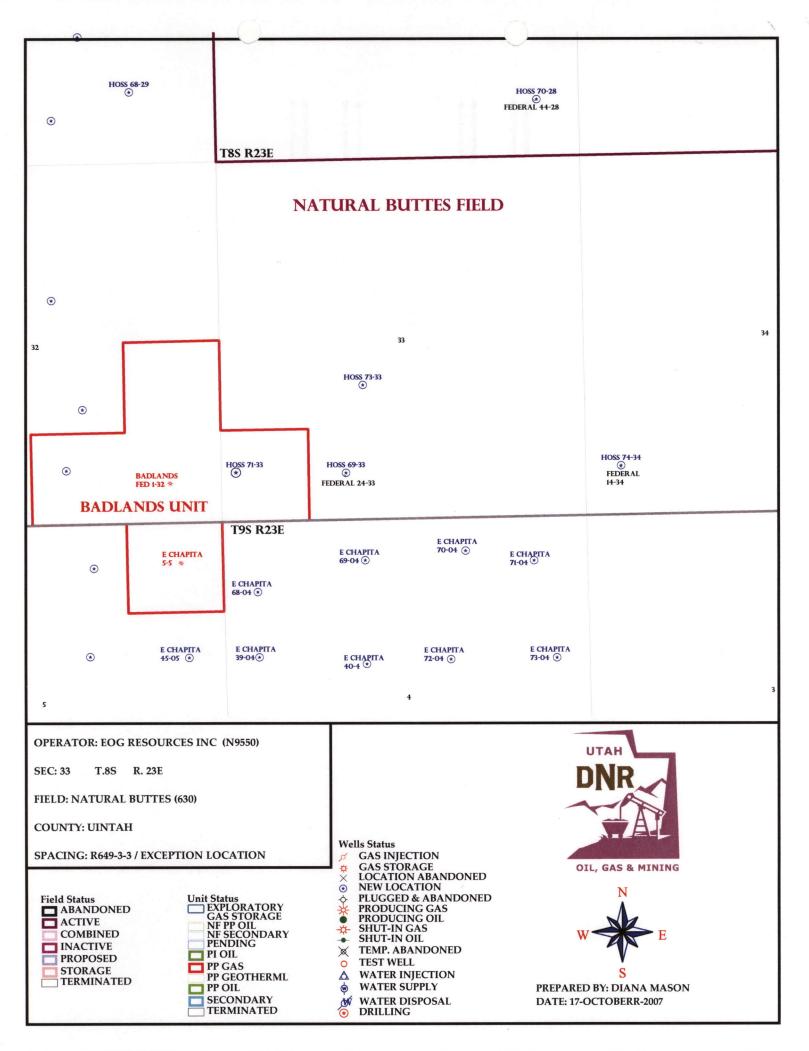






## WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 10/17/2007	API NO. ASSIGNED: 43-047-39714
WELL NAME: HOSS 71-33  OPERATOR: EOG RESOURCES INC ( N9550 )  CONTACT: MARY MAESTAS	PHONE NUMBER: 303-824-5526
PROPOSED LOCATION:	INSPECT LOCATN BY: / /
SWSW 33 080S 230E	Tech Review Initials Date
SURFACE: 0709 FSL 0190 FWL BOTTOM: 0709 FSL 0190 FWL	Engineering DRD 3/19/08
COUNTY: UINTAH	Geology
LATITUDE: 40.07395 LONGITUDE: -109.3402 UTM SURF EASTINGS: 641538 NORTHINGS: 44370	Surface
LEASE TYPE: 1 - Federal  LEASE NUMBER: UTU64422  SURFACE OWNER: 1 - Federal  RECEIVED AND/OR REVIEWED:	PROPOSED FORMATION: WSMVD COALBED METHANE WELL? NO LOCATION AND SITING:
Plat  Bond: Fed[1] Ind[] Sta[] Fee[]  (No. NM2308  Potash (Y/N)  Oil Shale 190-5 (B) or 190-3 or 190-13  Water Permit  (No. 49-225  RDCC Review (Y/N)  (Date:)  Fee Surf Agreement (Y/N)  Intent to Commingle (Y/N)  (Wesatch, Mesaverde)	R649-2-3.  Unit: BADLANDS  R649-3-2. General Siting: 460 From Qtr/Qtr & 920' Between Wells  R649-3-3. Exception  Drilling Unit Board Cause No: Eff Date: Siting:  R649-3-11. Directional Drill
STIPULATIONS:  1. Space of State of Sta	roc (  (1-15 Approva (



## **United States Department of the Interior**

## BUREAU OF LAND MANAGEMENT

Utah State Office P.O. Box 45155 Salt Lake City, Utah 84145-0155

IN REPLY REFER TO: 3160 (UT-922)

October 18, 2007

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2007 Plan of Development Badlands Unit,

Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following well is planned for calendar year 2007 within the Badlands, Uintah County, Utah.

API# WELL NAME LOCATION

(Proposed PZ Wasatch/MesaVerde)

43-047-39714 HOSS 71-33 Sec. 33 T. 8S R. 23E 709 FSL 190 FWL

This office has no objection to permitting the well at this time.

/s/ Michael L. Coulthard

bcc: File - Badlands Unit

Division of Oil Gas and Mining

Central Files Agr. Sec. Chron Fluid Chron

MCoulthard:mc:10-18-07

From:

<Mary\_Maestas@eogresources.com>
"Dustin Doucet" <dustindoucet@utah.gov>

To: Date:

3/19/2008 7:56 AM

Subject:

Re: Commingling Requests

Attachments:

Hoss 65-36 commingling.pdf; ECW 23-09.doc; Hoss 71-33.doc

Dustin,

I believe the attachments below are what you need. The East Chapita 23-09 and Hoss 71-33 attachments are revised drilling plans that include the commingling verbiage. The Hoss 65-36 attachment is what was included with the BLM-submitted APD. If you need any more information, please let me know.

Mary Maestas

"Dustin Doucet" <dustindoucet@utah.gov> 03/18/2008 02:46 PM

To <mary\_Maestas@eogresources.com> cc

Subject Commingling Requests

## Mary,

I recently received a few requests and had a question on one. These are the ones that were supposed to be in the APD but were not approved. Two were o.k., but one was not in the APD. This well was the Hoss 65-36 (API 43-047-38363). Your sundry references a 1/2/2007 submittal. I think that is referencing an APD that was submitted to the BLM as ours was approved 7/13/06. You have supplied all the info on this except I wanted a copy of the request that was submitted to the other owners (mainly the commingling method language). If you could send that over, I will process the sundry.

Also I have a couple of APD's that I am still waiting for the commingling method language on as well. The affidavit and map were included with the APD but the commingling method and request were left out. If you could get me an updated page or plan that includes this, I will pass these on as well. The APD's in question are the following:

East Chapita 23-09 HOss 71-33 Please send this as soon as possible and I will get them off my desk. Thanks.

Dustin

Dustin K. Doucet Petroleum Engineer Utah Division of Oil, Gas and Mining Oil and Gas Program 1594 West North Temple, Suite 1210 Salt Lake City, UT 84116

Phone: (801) 538-5281 fax: (801) 359-3940

email: dustindoucet@utah.gov



EOG Resources, Inc.

600 Seventeenth Street Suite 1000N Denver, CO 80202 Main: 303-572-9000 Fax: 303-824-5400

October 2, 2008

State of Utah
Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, Utah 84114-5801

Attention: Ms. Diana Whitney

RE:

Request for Exception to Location

and Siting of Wells

Hoss 71-33

SW/4SW/4 of Sec. 33-8S-23E, SLM

Uintah County, Utah Ponderosa Prospect G06, 0078811-000

#### Ladies and Gentlemen:

EOG Resources, Inc. ("EOG") proposes and respectfully requests permission to drill the Hoss 71-33, an 9,640' Wasatch/Mesaverde test well, at a location 709' FSL, 190' FWL (SW/4SW/4) of Section 33, Township 8 South, Range 23 East, SLM, Uintah County, Utah, which is not a location at which a well could be drilled in compliance with General Rule R649-3-2.

EOG endeavored to stake the Hoss 71-33 well at a legal location in accordance with General Rule R649-3-2, but found that a legal location could not be found due to extreme terrain conditions. Therefore, EOG is requesting this exception location.

Enclosed is a copy of the survey plat for the proposed well and another plat labeled Exhibit "A" which depicts the outlines of the 40-acre drilling units established in General Rule R649-3-2, the 460' setback per Cause No. 179-15 and the location at which EOG requests permission to drill the proposed Hoss 71-33 well. There are no other owners within the 460' radius of the proposed Hoss 71-33 well (see enclosed Exhibit "B").

EOG respectfully requests the Utah Division of Oil, Gas and Mining review and grant administrative approval of this application for an exception well location and permission to drill the proposed Wasatch/Mesaverde formation well described herein at its earliest opportunity.

RECEIVED
OCT 0 6 2008

Division of Oil, Gas and Mining October 2, 2008 Page 2 of 2

If you have any questions or need any additional information, please do not hesitate to contact the undersigned.

Yours very truly,

EOG RESOURCES, INC.

Delih Splans

Debbie Spears Land Associate

/das

Enclosures

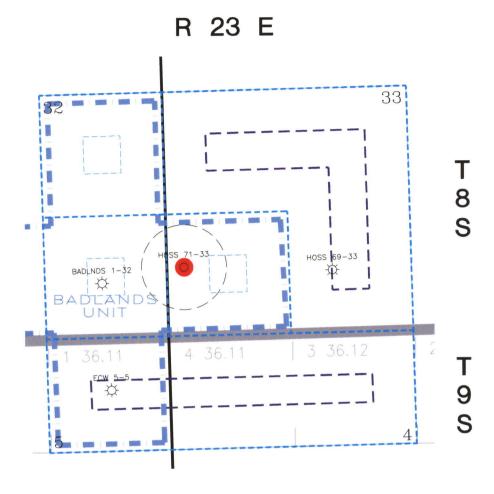
M:\das\exceptionlocation\hoss71-33.doc

CC:

Kaylene Gardner (with copies of enclosures)

Denver Well File (with copies of enclosures)

#### T8S, R23E, S.L.B.&M. EOG RESOURCES, INC. Well location, HOSS #71-33, located as shown N89'58'W - 5294.52' (G.L.O.) in the SW 1/4 SW 1/4 of Section 33, T8S. 1916 Brass Cap R23E, S.L.B.&M., Uintah County, Utah. 1.2' High, Pile of Stones BASIS OF ELEVATION BENCH MARK 20EAM LOCATED IN THE SE 1/4 OF SECTION 35, T8S, R21E, S.L.B.&M., TAKEN FROM THE OURAY SE, 2640.00 QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4697 FEET. BASIS OF BEARINGS N00.03'W BASIS OF BEARINGS IS A G.P.S. OBSERVATION. 1916 Brass Cap 0.9' High W. 50.80.00N NOO'08'49"W — 2636.53' (Meas. SCALE CERTIFICATE INTERIOR FROM HOSS #71-33 Elev. Ungraded Ground = 4973' THIS IS TO CERTIFY THAT THE AFTER PRICE OF ACTUAL SURVEY 190'-SUPERVISION AND THAT THE BEST OF MY KNOWLEDGE AND 1977 Brass Cap 1977 Brass Cap 0.7' High, Set 0.7' High, Small Pile of Stones T8SStone N89'57'19"W - 2644.78' (Meas.) S89°48'31"W - 2641.53' (Meas.) T9S1977 Brass Cap REVISED: 07-17-07 0.5' High, Pile of Stones UNTAH ENGINEERING & LAND SURVEYING 85 SOUTH 200 EAST - VERNAL, UTAH 84078 LEGEND: (NAD 83) (435) 789-1017 LATITUDE = 40'04'26.17'' (40.073936) SCALE DATE SURVEYED: = 90° SYMBOL DATE DRAWN: LONGITUDE = 109'20'27.09" (109.340858) 1" = 1000'03-20-07 03 - 22 - 07(NAD 27) = PROPOSED WELL HEAD. PARTY REFERENCES LATITUDE = $40^{\circ}04'26.30"$ (40.073972) T.A. E.D. P.M. G.L.O. PLAT LONGITUDE = 109'20'24.64" (109.340178) = SECTION CORNERS LOCATED. WEATHER FILE COOL EOG RESOURCES, INC.

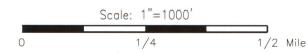


Oil or Gas Well Location Pattern pursuant to Utah Administrative Code Rule R 649—3—2

- Legal window within which an oil and gas well could be drilled in compliance with R 649-3-2.
- --- 460' Setback from lease lines per Cause No.179-15



Location at which applicant requests permission to drill the proposed Hoss 71—33 Well: 709' FSL, 190' FWL (SWSW) of Sec. 33, T8S— R23E



#### Exhibit "A"



Denver Division

Application for Exception Well Location

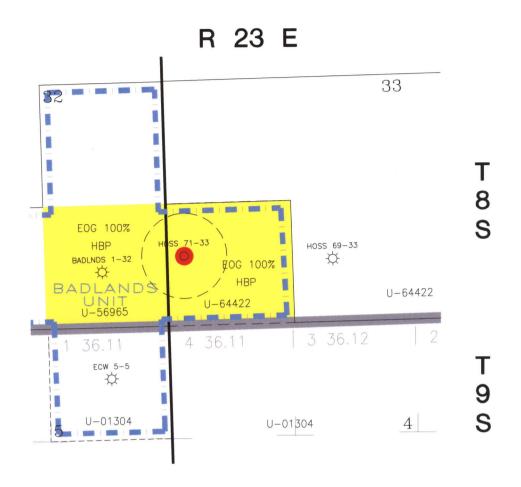
**HOSS 71-33 WELL** 

UINTAH COUNTY, UTAH

Scale: D'Autahlexception\_plats\ Hoss71-33.dwg exc\_A\_40 Author

uthor gt

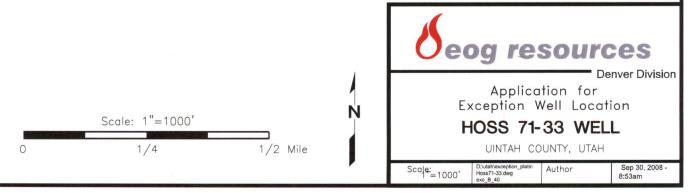
Sep 30, 2008 -8:54am



EOG 100%

Location at which applicant requests permission to drill the proposed Hoss 71—33 Well: 709' FSL, 190' FWL (SWSW) of Sec. 33, T8S— R23E

#### Exhibit "B"





Governor

GARY R. HERBERT

Lieutenant Governor

# State of Utah DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER Executive Director

Division of Oil Gas and Mining

JOHN R. BAZA
Division Director

October 9, 2008

EOG Resources, Inc. 1060 East Highway 40 Vernal, UT 84078

Re:

Hoss 71-33 Well, 709' FSL, 190' FWL, SW SW, Sec. 33, T. 8 South, R. 23 East,

Uintah County, Utah

#### Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

Administrative approval for commingling the production from the Wasatch formation and the Mesaverde formation in this well is hereby granted. Appropriate information has been submitted to DOGM in accordance with R649-3-22. No written objections from owners were received by DOGM.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-39714.

Sincerely,

Gil Hunt

Associate Director

Don Stelley

pab Enclosures

cc:

Uintah County Assessor

Bureau of Land Management, Vernal Office



Operator:	EOG Resources, Inc.			
Well Name & Number	Hoss 71-33			
API Number:	43-047-39714			
Lease:	UTU64422			
Location: SW SW	<b>Sec.</b> 33	T. 8 South	<b>R.</b> 23 East	

#### **Conditions of Approval**

#### 1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### 2. Notification Requirements

Notify the Division with 24 hours of spudding the well.

• Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

• Contact Dustin Doucet at (801) 538-5281 office (801) 733-0983 home

#### 3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

- 4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.
- 5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

# UNITED STATES RECEIVED DEPARTMENT OF THE INTERIOR RECEIVED BUREAU OF LAND MANY OF THE INTERIOR RECEIVED

**BUREAU OF LAND MANAGEMENT** 

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPRO	VEL
OMB No. 1004	-013
Expires July 31,	201

5.	Lease Serial No.
	UTU64422

~	If Indian	Allottee	Or	Tribe	N	9

1a. Type of Work:	<b>⊠</b> DRILL	REENTER	DLIVI	7. If Unit or CA Agreement, Name and No. UTU60917G
1b. Type of Well:	Oil Well		Other Single Zone Multiple Zon	<b>!</b>
2. Name of Operator EOG RESOU			ct: MARY A. MAESTAS _maestas@eogresources.com	9. API Well No. 43 047 397 4
3a. Address 1060 EAST HIG VERNAL, UT 8			3b. Phone No. (include area code) Ph: 303-824-5526 Fx: 303-824-5527	NATURAL BUTTES
4. Location of Well	(Report locat	ion clearly and in accor	dance with any State requirements.*)	11. Sec., T., R., M., or Blk. and Survey or Area
At surface At proposed pro			L 40.07394 N Lat, 109.34086 W Lon L 40.07394 N Lat, 109.34086 W Lon	Sec 33 T8S R23E Mer SLB SME: BLM
		om nearest town or post ERNAL, UTAH	office*	12. County or Parish 13. State UINTAH UT
15. Distance from pr		to nearest property or g. unit line, if any)	16. No. of Acres in Lease	17. Spacing Unit dedicated to this well
659' LEASE L	INE	g. dilit ilile, ii any)	1920.00	40.00
		to nearest well, drilling,	19. Proposed Depth	20. BLM/BIA Bond No. on file
1540'	ied for, on this le	ease, it.	9640 MD	NM2308
21. Elevations (Show 4972 GL	w whether DF, K	B, RT, GL, etc.	22. Approximate date work will start	23. Estimated duration 45 DAYS
			24. Attachments	
The following, comple	ted in accordance	e with the requirements of	of Onshore Oil and Gas Order No. 1, shall be attached to	this form:
Well plat certified b	y a registered su	rveyor.	4. Bond to cover the ope	rations unless covered by an existing bond on file (see

- A Drilling Plan.
   A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).

- Item 20 above).

  Operator certification

  Such other site specific information and/or plans as may be required by the authorized officer.

	·	
25. Signature (Electronic Submission)	Name (Printed/Typed) MARY A. MAESTAS Ph: 303-824-5526	Date 10/15/2007
Title REGULATORY ASSISTANT		2.0
Approved by (Signature)	Name (Printed/Typed)  Texas Kewala	0¢1°242008
Title Assistant Field Manager	Office VERNAL FIELD OFFICE	

Lands & Mineral Resources Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct

operations thereon. Conditions of approval, if any, are attached

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

#### NOTICE OF APPROVAL

Additional Operator Remarks (see next page)

Electronic Submission #56763 verified by the BLM Well Information System For EOG RESOURCES INC, sent to the Vernal Committed to AFMSS for processing by CINDY SEVERSON on 10/15/2007 (08CXS0014AE)

DIV. OF OIL, GAS & MINING

\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED



# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT VERNAL FIELD OFFICE

RNAL FIELD OFFICE VERNAL, UT 84078 (435) 781-4400



#### CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: EOG Resources, Inc.

Location:

SWSW, Sec. 33, T8S, R23E

Well No:

**HOSS 71-33** 

Lease No:

UTU-64422

API No:

43-047-39714

Agreement:

**Bad Lands Unit** 

Title	Name	Office Phone Number	Cell Phone Number
Petroleum Engineer:	Matt Baker	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	Michael Lee	(435) 781-4432	(435) 828-7875
Petroleum Engineer:	James Ashley	(435) 781-4470	(435) 828-7874
Petroleum Engineer:	Ryan Angus	(435) 781-4430	(435) 828-7368
Supervisory Petroleum Technician:	Jamie Sparger	(435) 781-4502	(435) 828-3913
Supervisory NRS:	Karl Wright	(435) 781-4484	(435) 828-7381
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	
NRS/Enviro Scientist:		(435) 781-4476	
NRS/Enviro Scientist:	Chuck Macdonald	(435) 781-4441	(435) 828-7481
NRS/Enviro Scientist:	Michael Cutler	(435) 781-3401	(435) 828-3546
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	(435) 828-3548
NRS/Enviro Scientist:	Verlyn Pindell	(435) 781-3402	(435) 828-3547
NRS/Enviro Scientist:	Darren Williams	(435) 781-4447	
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	(435) 828-3545
		Fax: (435) 781-3420	

## A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.

#### NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	_	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings.
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

COAs: Page 2 of 7 Well: HOSS 71-33

#### SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

#### Site Specific COAs:

#### STIPULATIONS:

• There is Golden eagle (inactive 2007) nest approximately 0.2 miles northwest of the location, but is not in line-of-site. With this occurrence drilling and construction will not be allowed from February 1 – July 15. This timing restriction will minimize disturbance during Golden eagle nesting.

#### Lease Notices from RMP:

• The lessee/operator is given notice that the area has been identified as crucial pronghorn (antelope) habitat. Time restrictions are required in the Surface Use Plan to protect the pronghorn during kidding period of May 15 to June 20.

#### Comments:

If it is anticipated that construction or drilling will occur during the given timing restriction, a BLM or qualified biologist shall be notified so surveys can be conducted. Depending upon the results of the survey, permission to proceed may or may not be recommended or granted (depending on the species being surveyed and the condition of the habitat).

#### Follow-up Actions and/or Recommendations:

Please be aware that this Special Status Species wildlife clearance is effective for 1 year from the date of the onsite date. Any proposals submitted after the date of this report (onsite) shall be require additional surveys and clearances.

#### **CONDITIONS OF APPROVAL:**

- Bury pipeline at all low water crossings.
- Permission from an authorized BLM representative will be required if construction or other operations occur during wet conditions that would lead to excessive rutting.
- Permission to clear all wildlife stipulations will only be approved by the BLM wildlife biologist during the specific timing for the species potentially affected by this action.
- Culverts and gravel may be installed as needed.

COAs: Page 3 of 7 Well: HOSS 71-33

# DOWNHOLE PROGRAM CONDITIONS OF APPROVAL (COAs)

#### Site Specific COAs:

 Production casing cement shall be brought up and into the surface casing. The minimum cement top is 200 ft above the surface casing shoe.
 COA specification is consistent with operators performance standard stated in APD.

- A variance is granted for Onshore Order #2 Drilling Operations III. E. "Blooie line discharge 100 feet from well bore and securely anchored" Blooie line can be 75 feet.

  All requirements will be adhered to covering air/gas drilling operations as described in Onshore Order #2 III. E. 1. Drilling Operations, Special Drilling Operations, air/gas drilling.
- Covering air/gas drilling operations, requirements will be adhered to covering air/gas drilling operations as described in Onshore Order #2 III. E. 1. Drilling Operations, Special Drilling Operations, air/gas drilling.
- A Gamma Ray well Log shall be run from the well Total Depth to the surface.
   A copy of the Gamma Ray well Log shall be submitted to the BLM Vernal Field Office.

Request to commingle the Wasatch and Mesaverde is approved. This approval can be rescinded at any time the Authorized Officer determines the commingling to be detrimental to the interest of the United States.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

#### DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.

COAs: Page 4 of 7 Well: HOSS 71-33

• BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.

- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- Cement baskets shall not be run on surface casing.
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the <u>top of cement</u> and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

COAs: Page 5 of 7 Well: HOSS 71-33

#### **OPERATING REQUIREMENT REMINDERS:**

• All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.

- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (½¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - o Unit agreement and/or participating area name and number, if applicable.
  - o Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and

COAs: Page 6 of 7 Well: HOSS 71-33

Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover
  equipment shall be removed from a well to be placed in a suspended status without prior
  approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30
  days, prior approval of the BLM Vernal Field Office shall be obtained and notification given
  before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

COAs: Page 7 of 7 Well: HOSS 71-33

• Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

	STATE OF UTAH  DEPARTMENT OF NATURAL RESOURCES  DIVISION OF OIL, GAS, AND MIN		FORM 9  5.LEASE DESIGNATION AND SERIAL NUMBER:
	DIVISION OF OIL, GAS, AND MIN	ING	UTU64422
SUND	RY NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for propo- bottom-hole depth, reenter plu DRILL form for such proposals.	sals to drill new wells, significantly deepen e agged wells, or to drill horizontal laterals. Us	existing wells below current se APPLICATION FOR PERMIT TO	7.UNIT or CA AGREEMENT NAME: BADLANDS
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: HOSS 71-33
2. NAME OF OPERATOR: EOG Resources, Inc.			<b>9. API NUMBER:</b> 43047397140000
3. ADDRESS OF OPERATOR: 1060 East Highway 40 , Verna	al, UT, 84078 435 781-911	PHONE NUMBER: 1 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0709 FSL 0190 FWL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSHI Qtr/Qtr: SWSW Section: 33	IP, RANGE, MERIDIAN: 3 Township: 08.0S Range: 23.0E Meridian: S	5	STATE: UTAH
11. CHE	CK APPROPRIATE BOXES TO INDICATI	E NATURE OF NOTICE, REPORT,	OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
Approximate date work will start:	☐ CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
9/29/2009	☐ CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT	☐ DEEPEN	FRACTURE TREAT	☐ NEW CONSTRUCTION
Date of Work Completion:	OPERATOR CHANGE	PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	VENT OR FLARE	☐ WATER DISPOSAL
DRILLING REPORT Report Date:	☐ WATER SHUTOFF	SI TA STATUS EXTENSION	✓ APD EXTENSION
Report Date:	☐ WILDCAT WELL DETERMINATION	OTHER	OTHER:
	POMPLETED OPERATIONS. Clearly show all pertions of the APD respectfully requests the APD extended for one year.	for the referenced well be	
NAME (PLEASE PRINT) Mickenzie Gates	<b>PHONE NUMBER</b> 435 781-9145	<b>TITLE</b> Operations Clerk	
SIGNATURE N/A	· · · · · · · · · · · · · · · · · · ·	DATE 9/29/2009	



#### The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices** 

#### Request for Permit Extension Validation Well Number 43047397140000

**API:** 43047397140000 **Well Name:** HOSS 71-33

Location: 0709 FSL 0190 FWL QTR SWSW SEC 33 TWNP 080S RNG 230E MER S

Company Permit Issued to: EOG RESOURCES, INC.

**Date Original Permit Issued:** 10/9/2008

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

ire revision. Following is a checklist of some items related to the application, which should be verified.
<ul> <li>If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes</li> <li>No</li> </ul>
<ul> <li>Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?</li> <li>Yes</li> <li>No</li> </ul>
<ul> <li>Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes</li> <li>No</li> </ul>
<ul> <li>Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?</li> <li>Yes</li> <li>No</li> </ul>
• Has the approved source of water for drilling changed? 🗍 Yes 📵 No
<ul> <li>Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?</li> <li>Yes</li> <li>No</li> </ul>
• Is bonding still in place, which covers this proposed well?

**Signature:** Mickenzie Gates **Date:** 9/29/2009

**Title:** Operations Clerk **Representing:** EOG RESOURCES, INC.

Date: September 30, 2009

Oil, Gas and Mining

Bv:

	STATE OF UTAH	c.	FORM 9		
	DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MIN		5.LEASE DESIGNATION AND SERIAL NUMBER: UTU64422		
SUND	RY NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:		
Do not use this form for propo bottom-hole depth, reenter plu DRILL form for such proposals	sals to drill new wells, significantly deepen ougged wells, or to drill horizontal laterals. Us	existing wells below current se APPLICATION FOR PERMIT TO	7.UNIT or CA AGREEMENT NAME: BADLANDS		
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: HOSS 71-33		
2. NAME OF OPERATOR: EOG Resources, Inc.		<b>9. API NUMBER:</b> 43047397140000			
3. ADDRESS OF OPERATOR: 1060 East Highway 40 , Verna		IE NUMBER: 1 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES		
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0709 FSL 0190 FWL			COUNTY: UINTAH		
QTR/QTR, SECTION, TOWNSHI Qtr/Qtr: SWSW Section: 33	IP, RANGE, MERIDIAN: 3 Township: 08.0S Range: 23.0E Meridian:	S	STATE: UTAH		
11. CHE	CK APPROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPORT,	OR OTHER DATA		
TYPE OF SUBMISSION		TYPE OF ACTION			
	☐ ACIDIZE	ALTER CASING	CASING REPAIR		
✓ NOTICE OF INTENT     Approximate date work will start:     O / 1 O / 2 O 1 O	✓ CHANGE TO PREVIOUS PLANS	CHANGE TUBING	☐ CHANGE WELL NAME		
8/19/2010	☐ CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE		
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	☐ NEW CONSTRUCTION		
Date of their completion	OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK		
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION		
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON		
	☐ TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL		
DRILLING REPORT Report Date:	☐ WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION		
Report Date.	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  EOG Resources, Inc. respectfully requests authorization to change the Drilling Plan as per the attached. Conductor size: Item 4 Float Equipment: Item 5 Logs: Item 8 Air Drilling Variance: Items 7 & 13 Please see the attached revised Drilling Plan reflecting the purposed changes.  Date:  August 26, 2010  By:					
NAME (PLEASE PRINT) Mickenzie Gates	<b>PHONE NUMBER</b> 435 781-9145	TITLE Operations Clerk			
SIGNATURE N/A		<b>DATE</b> 8/19/2010			

#### HOSS 71-33 SW/SW, SEC. 33, T8S, R23E, S.L.B.&M.. UINTAH COUNTY, UTAH

#### 1. & 2. ESTIMATED TOPS & ANTICIPATED OIL, GAS, & WATER ZONES:

FORMATION	TVD-RKB (ft)	Objective	Lithology	
Green River	2,090		Shale	
Wasatch	5,011	Primary	Sandstone	Gas
Chapita Wells	5,637	Primary	Sandstone	Gas
Buck Canyon	6,240	Primary	Sandstone	Gas
North Horn	6,906	Primary	Sandstone	Gas
KMV Price River	7,400	Primary	Sandstone	Gas
KMV Price River Middle	8,208	Primary	Sandstone	Gas
KMV Price River Lower	9,063	Primary	Sandstone	Gas
Sego	9,440		Sandstone	
TD	9,640			

Estimated TD: 9,640' or 200'± below Sego top

**Anticipated BHP: 5,264 Psig** 

- 1. Fresh Waters may exist in the upper, approximately 1,000 ft  $\pm$  of the Green River Formation, with top at about 2,000 ft  $\pm$ .
- 2. Cement isolation is installed to surface of the well isolating all zones by cement.

EOG Resources, Inc. requests authorization for commingling of production from the Wasatch and Mesaverde formations in the referenced wellbore. In the event allocation of production is necessary, the allocation will be based on proportionate net pay as calculated from cased-hole logs. Production from the Wasatch and Mesaverde formations will be commingled in the wellbore and produced through open-ended 2-3/8" tubing landed below all perforations in the 4-1/2" production casing.

Attached is a map showing the location of all wells on contiguous oil and gas leases or drilling units and an affidavit showing that this application has been provided to owners of all contiguous oil and gas leases or drilling units overlying the pool.

#### 3. PRESSURE CONTROL EQUIPMENT:

Production Hole – 5000 Psig BOP schematic diagrams attached.

#### HOSS 71-33 SW/SW, SEC. 33, T8S, R23E, S.L.B.&M.. UINTAH COUNTY, UTAH

#### 4. CASING PROGRAM:

CASING	Hole Size	<u>Length</u>	<u>Size</u>	<u>WEIGHT</u>	<u>Grade</u>	Thread	Rating Collapse	Factor Burst	<b>Tensile</b>
Conductor	20"	40 - 60'	14"	32.5#	A252	STC		1880 PSI	10,000#
Surface	12 1/4"	0 – 2,300° KB±	9-5/8"	36.0#	J-55	STC	2020 PSI	3520 Psi	394,000#
Production	7-7/8"	Surface – TD	4-1/2"	11.6#	P-110	LTC	<b>7560 PSI</b>	10,690 Psi	279,000#

Note: 12-1/4" surface hole will be drilled to a total depth of 200'± below the base of the Green River lost circulation zone and cased w/9-5/8" as shown to that depth. Drilled depth may be shallower or deeper than the 2300' shown above depending on the actual depth of the loss zone.

All casing will be new or inspected.

#### 5. Float Equipment:

#### **Surface Hole Procedure (0'- 2300'±)**

Guide Shoe

Insert Float Collar (PDC drillable)

Centralizers: 1-5' above shoe, top of its. #2 and #3 then every 5<sup>th</sup> joint to surface. (15 total)

#### **Production Hole Procedure (2300'± - TD):**

Float shoe, 1 joint casing, float collar and balance of casing to surface. 4-1/2", 11.6#, N-80 or equivalent marker collars or short casing joints to be placed at top of Price River and 400' above top of Wasatch. Centralizers to be placed 5' above shoe on joint #1, top of joint #2, and every 3rd joint to 400' above the top of primary object. Thread lock float shoe, top and bottom of float collar, and top of 2<sup>nd</sup> joint.

#### 6. MUD PROGRAM

#### **Surface Hole Procedure (Surface - 2300'±):**

Air/air mist or aerated water.

<u>Production Hole Procedure (2300' $\pm$  - TD):</u> Anticipated mud weight 9.5 – 10.5 ppg depending on actual wellbore conditions encountered while drilling.

#### **HOSS 71-33**

#### SW/SW, SEC. 33, T8S, R23E, S.L.B.&M.. UINTAH COUNTY, UTAH

2300'±-TD A closed mud system will be utilized. A bentonite gelled water mud system will be used to control viscosity w/PHPA polymer used for supplemental viscosity and clay encapsulation/inhibition. Water loss will be maintained at <15cc's using white starch or PAC. Bactericides will be used as needed. Anticipated pH will range from 9.0-10.0. Mud weight will be adjusted as necessary for well control. Deflocculants/thinners will be used as necessary to maintain mud quality. LCM sweeps will be utilized as necessary to control lost circulation and mud loss. CO2 contamination, if encountered, will be treated with lime and gypsum.

#### 7. VARIANCE REQUESTS:

**Reference:** Onshore Oil and Gas Order No. 1

Onshore Oil and Gas Order No. 2 – Section E: Special Drilling Operations

- o EOG Resources, Inc. requests a variance to regulations requiring a straight run blooie line to be 100' in length. (Where possible, a straight run blooie line will be used).
- o EOG Resources, Inc. requests a variance to regulations requiring the blooie line to be 100' in length. To reduce location excavation, the blooie line will be approximately 75' in length.
- o EOG Resources, Inc. requests a variance to regulations, during air drilling operations only, requiring dedusting equipment. Dust during air drilling operations is controlled by water mist.
- EOG Resources, Inc. requests a variance to regulations, during air drilling operations only, requiring an automatic igniter or continuous pilot light on the blooie line. (Not required on aerated water system).
- o EOG Resources, Inc. requests a variance that compressors are located in the opposite direction from the blooie line a minimum of 100 feet from the well bore. (Air Compressors are rig mounted.

#### 8. EVALUATION PROGRAM:

**Logs:** Mud log from base of surface casing to TD.

Cased-hole Logs: Cased-hole logs will be run in lieu of open-hole logs consisting of the following:

CBL/CCL/VDL/GR

#### 9. CEMENT PROGRAM:

#### **Surface Hole Procedure (Surface - 2300'±):**

**Lead:** 185 sks Class "G" cement with 16% Gel, 10 #/sx Gilsonite, 3% Salt, 2% CaCI<sub>2</sub>, 3 lb/sx GR3 ½ #/sx Flocele mixed at 11 ppg, 3.82 ft<sup>3</sup>/sk. yield, 23 gps water.

#### **HOSS 71-33**

#### SW/SW, SEC. 33, T8S, R23E, S.L.B.&M.. UINTAH COUNTY, UTAH

Tail: 207 sks Class "G" cement with 2% CaCI<sub>2</sub>, ¼#/sk Flocele mixed at 15.6 ppg, 1.18 ft<sup>3</sup>/sk., 5.2

gps water.

**Top Out**: As necessary with Class "G" cement with 2% CaCl<sub>2</sub>, ¼#/sk Flocele mixed at 15.6 ppg, 1.18

ft<sup>3</sup>/sk., 5.2 gps water.

**Note:** Cement volumes will be calculated to bring lead cement to surface and tail cement to

500'above the casing shoe.

#### **Production Hole Procedure (2300'± - TD)**

**Lead:** 156 sks: Hi-Lift "G" w/12% D20 (Bentonite), 1% D79 (Extender), 5% D44

(Salt),0.2% D46 (Antifoam), 0.25% D112 (Fluid Loss Additive), 0.25 pps D29

(cello flakes) mixed at 11.0 ppg, 3.91 ft<sup>3</sup>/sk., 24.5 gps water.

**Tail:** 902 sks: 50:50 Poz "G" w/ 2% D20 (Bentonite), 0.1% D46 (Antifoam), 0.075% D13

(Retarder), 0.2% D167 (Fluid Loss Additive), 0.2% D65 (Dispersant), mixed at

14.1 ppg, 1.28 ft<sup>3</sup>/sk., 5.9gps water.

**Note**: The above number of sacks is based on gauge-hole calculation.

Lead volume to be calculated to bring cement to  $200' \pm \text{above } 9\text{-}5/8''$  casing shoe. Tail volume to be calculated to bring cement to  $400' \pm \text{above top of Wasatch}$ .

Final Cement volumes will be based upon gauge-hole plus 45% excess.

#### **10. ABNORMAL CONDITIONS:**

#### **Surface Hole (Surface - 2300'±):**

Lost circulation

#### Production Hole (2300' $\pm$ - TD):

Sloughing shales, lost circulation and key seat development are possible in the Wasatch Formation.

#### 11. STANDARD REQUIRED EQUIPMENT:

- A. Choke Manifold
- B. Upper and Lower Kelly Cock
- C. Stabbing Valve
- D. Visual Mud Monitoring

#### **HOSS 71-33**

#### SW/SW, SEC. 33, T8S, R23E, S.L.B.&M.. <u>UINTAH COUNTY</u>, UTAH

#### 12. HAZARDOUS CHEMICALS:

No chemicals subject to reporting under SARA title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

#### 13. Air Drilling Operations:

- 1. Main Air Compressors are 1250 CFM 350 psi with 2000 psi Boosters and are rig mounted.
- 2. Secondary Air Compressors are 1170 CFM 350 psi with 2000 psi Boosters and are rig mounted.
- 3. Minimum setting depth of conductor casing will be 60' GL or 10'± into competent formation, whichever is deeper, as determined by the EOG person in charge. Exceptions must be approved by an EOG drilling superintendent or manager.
- 4. The diameter of the diverter flow line will be a minimum of 10" to help reduce back pressure on the well bore during uncontrolled flow.
- 5. Rat and Mouse hole drilling will occur only after surface casing has been set and cemented.
- 6. EOG Resources, Inc. will use a properly maintained and lubricated stripper head.

(Attachment: BOP Schematic Diagram)

	STATE OF UTAH  DEPARTMENT OF NATURAL RESOUR  DIVISION OF OIL, GAS, AND M		3	5.LEASE D	FORM 9 DESIGNATION AND SERIAL NUMBER: 22
	RY NOTICES AND REPORTS			6. IF IND	IAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for propo bottom-hole depth, reenter plu DRILL form for such proposals	sals to drill new wells, significantly deepe ugged wells, or to drill horizontal laterals.	en exist . Use Al	ting wells below current PPLICATION FOR PERMIT TO	7.UNIT or BADLANI	CA AGREEMENT NAME: DS
1. TYPE OF WELL Gas Well				8. WELL N	IAME and NUMBER: 1-33
2. NAME OF OPERATOR: EOG Resources, Inc.				<b>9. API NU</b> 4304739	MBER: 07140000
3. ADDRESS OF OPERATOR: 1060 East Highway 40 , Verna			UMBER:		and POOL or WILDCAT: L BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0709 FSL 0190 FWL				COUNTY: UINTAH	
QTR/QTR, SECTION, TOWNSHI Qtr/Qtr: SWSW Section: 33	IP, RANGE, MERIDIAN: 3 Township: 08.0S Range: 23.0E Meridia	n: S		STATE: UTAH	
11. CHE	CK APPROPRIATE BOXES TO INDICA	ATE N	ATURE OF NOTICE, REPORT	OR OTHE	R DATA
TYPE OF SUBMISSION			TYPE OF ACTION		
	□ CHANGE TO PREVIOUS PLANS □ CHANGE WELL STATUS □ DEEPEN □ OPERATOR CHANGE □ PRODUCTION START OR RESUME □ REPERFORATE CURRENT FORMATION □ TUBING REPAIR □ WATER SHUTOFF □ WILDCAT WELL DETERMINATION  OMPLETED OPERATIONS. Clearly show all prespectfully requests the AF extended for one year	ertinen	r the referenced well b	□ ci □ ci □ N □ Pi □ R □ Ti □ W ✓ A OTHER:	
NAME (PLEASE PRINT) Michelle Robles	PHONE NUMBE 307 276-4842	R	TITLE Regulatory Assistant		
SIGNATURE N/A	23, 2,0 10,2		<b>DATE</b> 9/22/2010		



#### The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices** 

#### Request for Permit Extension Validation Well Number 43047397140000

**API:** 43047397140000 Well Name: HOSS 71-33

Location: 0709 FSL 0190 FWL QTR SWSW SEC 33 TWNP 080S RNG 230E MER S

Company Permit Issued to: EOG RESOURCES, INC.

**Date Original Permit Issued:** 10/9/2008

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

ine revision. Following is a checklist of some items related to the application, which should be verified.
<ul> <li>If located on private land, has the ownership changed, if so, has the surface agreement been updated?  Yes No</li> </ul>
<ul> <li>Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?</li> <li>Yes</li> <li>No</li> </ul>
<ul> <li>Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?</li></ul>
<ul> <li>Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?</li> <li>Yes</li> <li>No</li> </ul>
• Has the approved source of water for drilling changed? 🔘 Yes 📵 No
<ul> <li>Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?</li> <li>Yes</li> <li>No</li> </ul>
Approved by the • Is bonding still in place, which covers this proposed well?   No Utah Division of Oil, Gas and Mining
ature: Michelle Robles Date: 9/22/2010
Contain 20 2010

Sign

Title: Regulatory Assistant Representing: EOG RESOURCES, INC.

September 28, 2010

	STATE OF UTAH DEPARTMENT OF NATURAL RESOU	DCEC			FORM 9
	DIVISION OF OIL, GAS, AND M		3		LEASE DESIGNATION AND SERIAL NUMBER ITU64422
	RY NOTICES AND REPORT			6.	IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for propo bottom-hole depth, reenter plu DRILL form for such proposals	sals to drill new wells, significantly deep ugged wells, or to drill horizontal laterals	en exist s. Use A	ing wells below current PPLICATION FOR PERMIT TC		UNIT or CA AGREEMENT NAME: ADLANDS
1. TYPE OF WELL Gas Well					WELL NAME and NUMBER: IOSS 71-33
2. NAME OF OPERATOR: EOG Resources, Inc.					API NUMBER: 3047397140000
3. ADDRESS OF OPERATOR: 1060 East Highway 40 , Verna		<b>HONE N</b> I 9111 E			FIELD and POOL or WILDCAT: IATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0709 FSL 0190 FWL					DUNTY: IINTAH
QTR/QTR, SECTION, TOWNSH: Qtr/Qtr: SWSW Section: 3:	IP, RANGE, MERIDIAN: 3 Township: 08.0S Range: 23.0E Meridia	an: S			TATE: ITAH
11. CHE	CK APPROPRIATE BOXES TO INDIC	CATE N	ATURE OF NOTICE, REPC	ORT, OR	OTHER DATA
TYPE OF SUBMISSION			TYPE OF ACTION		
	☐ ACIDIZE		ALTER CASING		☐ CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	☐ CHANGE TO PREVIOUS PLANS		CHANGE TUBING		☐ CHANGE WELL NAME
	CHANGE WELL STATUS		COMMINGLE PRODUCING FORMATION	ONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN		FRACTURE TREAT		□ NEW CONSTRUCTION
	OPERATOR CHANGE		PLUG AND ABANDON		PLUG BACK
✓ SPUD REPORT	PRODUCTION START OR RESUME		RECLAMATION OF WELL SITE		RECOMPLETE DIFFERENT FORMATION
Date of Spud: 10/20/2010	REPERFORATE CURRENT FORMATION		SIDETRACK TO REPAIR WELL		TEMPORARY ABANDON
	☐ TUBING REPAIR		VENT OR FLARE		WATER DISPOSAL
DRILLING REPORT Report Date:	☐ WATER SHUTOFF		SI TA STATUS EXTENSION		APD EXTENSION
	☐ WILDCAT WELL DETERMINATION		OTHER		OTHER:
l .	ompleted operations. Clearly show all perenced well was spud on Oc	-		ths, volu	mes, etc.
					cepted by the
					ah Division of
			-		Gas and Mining
			F	JK	RECORD ONLY
					,
NAME (PLEASE PRINT) Michelle Robles	<b>PHONE NUMBE</b> 307 276-4842	ER	<b>TITLE</b> Regulatory Assistant		
SIGNATURE N/A			<b>DATE</b> 10/21/2010		

	STATE OF UTAH		FORM 9
	DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINI		<b>5.LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU64422
	RY NOTICES AND REPORTS (	_	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	sals to drill new wells, significantly deepen e ıgged wells, or to drill horizontal laterals. Us		7.UNIT or CA AGREEMENT NAME: BADLANDS
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: HOSS 71-33
2. NAME OF OPERATOR: EOG Resources, Inc.			<b>9. API NUMBER:</b> 43047397140000
3. ADDRESS OF OPERATOR: 1060 East Highway 40 , Verna		E NUMBER: 1 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0709 FSL 0190 FWL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSHI Qtr/Qtr: SWSW Section: 33	IP, RANGE, MERIDIAN: 3 Township: 08.0S Range: 23.0E Meridian: S	5	STATE: UTAH
CHE	CK APPROPRIATE BOXES TO INDICATE	NATURE OF NOTICE, REPORT,	OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	☐ ACIDIZE [	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start: 10/20/2010	☐ CHANGE TO PREVIOUS PLANS	CHANGE TUBING	☐ CHANGE WELL NAME
10/20/2010	☐ CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN [	FRACTURE TREAT	□ NEW CONSTRUCTION
·	OPERATOR CHANGE	PLUG AND ABANDON	☐ PLUG BACK
SPUD REPORT	☐ PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
_	L TUBING REPAIR	VENT OR FLARE	✓ WATER DISPOSAL
DRILLING REPORT Report Date:	☐ WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
	WILDCAT WELL DETERMINATION	OTHER	OTHER:
EOG Resources, Ind produced water a 550-30N SWD 1,2,3,4,5,6&7 5. Wh SWI	MPLETED OPERATIONS. Clearly show all pertic. respectfully requests authorize the following locations: 1. NB 3. CWU 2-29 SWD 4. Red Washite River Evaporation Ponds 18 D Wells ROW# UTU86010 & UT	zation for the disposal of U 20-20B SWD 2. CWU A Evaporation Ponds 12 6. RNI Disposal 7. Hogg	Accepted by the Jtah Division of
NAME (PLEASE PRINT) Michelle Robles	<b>PHONE NUMBER</b> 307 276-4842	TITLE Regulatory Assistant	
SIGNATURE N/A		DATE 10/21/2010	

	STATE OF UTAH DEPARTMENT OF NATURAL RESOUR	) CEC			FORM 9
	DIVISION OF OIL, GAS, AND M		G .	5.LEASI UTU64	E DESIGNATION AND SERIAL NUMBER: 422
	RY NOTICES AND REPORT		_	6. IF IN	DIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for propo bottom-hole depth, reenter plu DRILL form for such proposals	sals to drill new wells, significantly deepenged wells, or to drill horizontal laterals.  .	en exist . Use A	ting wells below current PPLICATION FOR PERMIT TO	7.UNIT BADLA	or CA AGREEMENT NAME: NDS
1. TYPE OF WELL Gas Well				8. WELI HOSS	NAME and NUMBER: 71-33
2. NAME OF OPERATOR: EOG Resources, Inc.					NUMBER: 397140000
3. ADDRESS OF OPERATOR: 1060 East Highway 40 , Verna			UMBER: ext		D and POOL or WILDCAT: PAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0709 FSL 0190 FWL				COUNTY	
QTR/QTR, SECTION, TOWNSH: Qtr/Qtr: SWSW Section: 3:	IP, RANGE, MERIDIAN: 3 Township: 08.0S Range: 23.0E Meridia	n: S		STATE: UTAH	
11. CHE	CK APPROPRIATE BOXES TO INDIC.	ATE N	ATURE OF NOTICE, REPORT	, OR OTH	HER DATA
TYPE OF SUBMISSION			TYPE OF ACTION		
	☐ ACIDIZE		ALTER CASING		CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	☐ CHANGE TO PREVIOUS PLANS		CHANGE TUBING		CHANGE WELL NAME
	☐ CHANGE WELL STATUS		COMMINGLE PRODUCING FORMATIONS		CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN		FRACTURE TREAT		NEW CONSTRUCTION
10/20/2010	☐ OPERATOR CHANGE		PLUG AND ABANDON		PLUG BACK
SPUD REPORT	PRODUCTION START OR RESUME		RECLAMATION OF WELL SITE		RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION		SIDETRACK TO REPAIR WELL		TEMPORARY ABANDON
	☐ TUBING REPAIR		VENT OR FLARE		WATER DISPOSAL
DRILLING REPORT Report Date:	☐ WATER SHUTOFF		SI TA STATUS EXTENSION		APD EXTENSION
Report Date.	☐ WILDCAT WELL DETERMINATION	1	OTHER	отні	ER: Drilling Operations
	DMPLETED OPERATIONS. Clearly show all p			volumes,	etc.
No activity	has occurred since spud on	Octo	,	_	
					ted by the
			0		Division of
					and Mining
			FO	KK	CORP <sub>25</sub> ONLY
					,
NAME (PLEASE PRINT) Michelle Robles	<b>PHONE NUMBE</b> 307 276-4842	R	TITLE Regulatory Assistant		
SIGNATURE N/A	2.5 .5.2		DATE 10/21/2010		
			I.		

## Federal Approval of this Action is Necessary

API Well No: 43047397140000

			FORM 9
	STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES		
	DIVISION OF OIL, GAS, AND MININ	IG	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU64422
	RY NOTICES AND REPORTS O	_	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	sals to drill new wells, significantly deepen exi ugged wells, or to drill horizontal laterals. Use		7.UNIT or CA AGREEMENT NAME: BADLANDS
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: HOSS 71-33
2. NAME OF OPERATOR: EOG Resources, Inc.			<b>9. API NUMBER:</b> 43047397140000
3. ADDRESS OF OPERATOR: 1060 East Highway 40 , Verna		NUMBER: Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0709 FSL 0190 FWL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSHI Qtr/Qtr: SWSW Section: 33	IP, RANGE, MERIDIAN: 3 Township: 08.0S Range: 23.0E Meridian: S		STATE: UTAH
11. CHE	CK APPROPRIATE BOXES TO INDICATE I	NATURE OF NOTICE, REPORT,	OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	☐ ACIDIZE ☐	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	✓ CHANGE TO PREVIOUS PLANS	CHANGE TUBING	☐ CHANGE WELL NAME
10/20/2010	☐ CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
SUBSEQUENT REPORT	DEEPEN	FRACTURE TREAT	□ NEW CONSTRUCTION
Date of Work Completion:	OPERATOR CHANGE	PLUG AND ABANDON	☐ PLUG BACK
		RECLAMATION OF WELL SITE	
SPUD REPORT	PRODUCTION START OR RESUME		☐ RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR ☐	VENT OR FLARE	☐ WATER DISPOSAL
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
neport Pater	☐ WILDCAT WELL DETERMINATION ☐	OTHER	OTHER:
12. DESCRIBE PROPOSED OR CO	DMPLETED OPERATIONS. Clearly show all pertine	ent details including dates, depths, v	olumes, etc.
EOG Resources, Inc.	respectfully requests to change to	the TD for the reference	
well from 9640' to 9	9700' PLEASE SEE ATTACHED RE	VISED DRILLING PLAN.	Approved by the
			<b>Utah Division of</b>
			Oil, Gas and Mining
			O-4-h 25 2010
		D.	ate: October 25, 2010
		R	v. A. OSGINI
		•	
NAME (PLEASE PRINT)	PHONE NUMBER	TITLE	
Nanette Lupcho	435 781-9157	Regulatory Assistant	
SIGNATURE N/A		<b>DATE</b> 10/20/2010	

#### **HOSS 71-33**

## SW/SW, SEC. 33, T8S, R23E, S.L.B.&M... UINTAH COUNTY, UTAH

#### **REVISED 10-19-2010**

#### 1. & 2. ESTIMATED TOPS & ANTICIPATED OIL, GAS, & WATER ZONES:

FORMATION	TVD-RKB (ft)	Objective	Lithology	
Green River	1,816		Shale	
Birdsnest	2,111		Dolomite	
Mahogany Oil Shale Bed	2,741		Shale	
Wasatch	5,018	Primary	Sandstone	Gas
Chapita Wells	5,621	Primary	Sandstone	Gas
Buck Canyon	6,300	Primary	Sandstone	Gas
North Horn	6,909	Primary	Sandstone	Gas
KMV Price River	7,403	Primary	Sandstone	Gas
KMV Price River Middle	8,149	Primary	Sandstone	Gas
KMV Price River Lower	8,940	Primary	Sandstone	Gas
Sego	9,503		Sandstone	
TD	9,700			

Estimated TD: 9,700' or 200'± below TD Anticipated BHP: 5,300 psi

- 1. Fresh Waters may exist in the upper, approximately 1,000 ft  $\pm$  of the Green River Formation, with top at about 1,800 ft  $\pm$ .
- 2. Cement isolation is installed to surface of the well isolating all zones by cement.

#### 3. PRESSURE CONTROL EQUIPMENT:

Production Hole – 5000 psi BOP schematic diagrams attached.

#### 4. CASING PROGRAM:

	Hole	<u>Length</u>	<u>Size</u>	<b>WEIGHT</b>	<u>Grade</u>	Thread	Rating	<u>Factor</u>	
<u>CASING</u>	<u>Size</u>						<u>Collapse</u>	<u>Burst</u>	<u>Tensile</u>
Conductor	20"	0 – 60'	14"	48.0#	H-40	STC	770 PSI	1730 PSI	322,000#
Surface	12 1/4"	0 – 2500' KB±	9-5/8"	36.0#	J-55	STC	2020 PSI	3520 Psi	394,000#
Production	7-7/8"	Surface - TD	4-1/2"	11.6#	N-80	LTC	6350 PSI	7780 Psi	233,000#

Note:  $12-\frac{1}{4}$ " surface hole will be drilled to a total depth of 200'± below the base of the Green River lost circulation zone and cased w/9- $\frac{5}{8}$ " as shown to that depth. Drilled depth may be shallower or deeper than the 2500' shown above depending on the actual depth of the loss zone.

All casing will be new or inspected.

#### HOSS 71-33 SW/SW, SEC. 33, T8S, R23E, S.L.B.&M.. UINTAH COUNTY, UTAH

#### 5. Float Equipment:

#### Surface Hole Procedure (0'- 2500'±)

Guide Shoe

Insert Float Collar (PDC drillable)

Centralizers: 1-5' above shoe, top of its. #2 and #3 then every 5<sup>th</sup> joint to surface. (8-15 total)

#### Production Hole Procedure (2500'± - TD):

Float shoe, 1 joint casing, float collar and balance of casing to surface. 4-½", 11.6#, N-80 or equivalent marker collars or short casing joints to be placed at top of Price River and 400' above top of Wasatch. Centralizers to be placed 5' above shoe on joint #1, top of joint #2, and every 3rd joint to 400' above the top of primary objective. Thread lock float shoe, top and bottom of float collar, and top of 2<sup>nd</sup> joint.

#### 6. MUD PROGRAM

#### Surface Hole Procedure (Surface - 2500'±):

Air/air mist or aerated water.

#### Production Hole Procedure (2500'± - TD):

Anticipated mud weight 9.5 – 10.5 ppg depending on actual wellbore conditions encountered while drilling.

# 2500'±-TD A closed mud system will be utilized. A bentonite gelled water mud system will be used to control viscosity w/PHPA polymer used for supplemental viscosity and clay encapsulation/inhibition. Water loss will be maintained at <15cc's using white starch or PAC. Bactericides will be used as needed. Anticipated pH will range from 9.0-10.0. Mud weight will be adjusted as necessary for well control. Deflocculants/thinners will be used as necessary to maintain mud quality. LCM sweeps will be utilized as necessary to control lost circulation and mud loss. CO2 contamination, if encountered, will be treated with lime and gypsum.

#### HOSS 71-33 SW/SW, SEC. 33, T8S, R23E, S.L.B.&M.. UINTAH COUNTY, UTAH

#### 7. VARIANCE REQUESTS:

Reference: Onshore Oil and Gas Order No. 1

Onshore Oil and Gas Order No. 2 - Section E: Special Drilling Operations

- EOG Resources, Inc. requests a variance to regulations requiring a straight run blooie line to be 100' in length. (Where possible, a straight run blooie line will be used).
- EOG Resources, Inc. requests a variance to regulations requiring the blooie line to be 100' in length. To reduce location excavation, the blooie line will be approximately 75' in length.
- EOG Resources, Inc. requests a variance to regulations, during air drilling operations only, requiring dedusting equipment. Dust during air drilling operations is controlled by water mist.
- o EOG Resources, Inc. requests a variance to regulations, during air drilling operations only, requiring an automatic igniter or continuous pilot light on the blooie line. (Not required on aerated water system).
- o EOG Resources, Inc. requests a variance that compressors are located in the opposite direction from the blooie line a minimum of 100 feet from the well bore. (Air Compressors are rig mounted).

#### 8. EVALUATION PROGRAM:

**Logs:** Mud log from base of surface casing to TD.

Cased-hole Logs: Cased-hole logs will be run in lieu of open-hole logs consisting of the following:

**Cement Bond / Casing Collar Locator and Pulsed Neutron** 

#### **HOSS 71-33**

# SW/SW, SEC. 33, T8S, R23E, S.L.B.&M.. UINTAH COUNTY, UTAH

#### 9. CEMENT PROGRAM:

#### Surface Hole Procedure (Surface - 2500'±):

Lead: 170 sks Class "G" cement with 16% Gel, 10 #/sx Gilsonite, 3% Salt, 2% CaCl<sub>2</sub>,

3 lb/sx GR3 ¼ #/sx Flocele mixed at 11 ppg, 3.82 ft<sup>3</sup>/sk. yield, 23 gps water.

Tail: 150 sks Class "G" cement with 2% CaCl<sub>2</sub>, ¼#/sk Flocele mixed at 15.6 ppg, 1.18 ft<sup>3</sup>/sk.,

5.2 gps water.

Top Out: As necessary with Class "G" cement with 2% CaCl<sub>2</sub>, ¼#/sk Flocele mixed at 15.6

ppg, 1.18 ft<sup>3</sup>/sk., 5.2 gps water.

Note: Cement volumes will be calculated to bring lead cement to surface and tail

cement to 500'above the casing shoe.

The above volumes are based on gauge hole with no excess.

#### Production Hole Procedure (2500'± - TD)

Lead: 135 sks: Hi-Lift "G" w/12% D20 (Bentonite), 1% D79 (Extender), 5% D44

(Salt),0.2% D46 (Antifoam), 0.25% D112 (Fluid Loss Additive), 0.25 pps D29

(cello flakes) mixed at 11.0 ppg, 3.91 ft<sup>3</sup>/sk., 24.5 gps water.

**Tail:** 905 sks: 50:50 Poz "G" w/ 2% D20 (Bentonite), 0.1% D46 (Antifoam), 0.075%

D13 (Retarder), 0.2% D167 (Fluid Loss Additive), 0.2% D65 (Dispersant),

mixed at 14.1 ppg, 1.28 ft<sup>3</sup>/sk., 5.9gps water.

**Note**: The above number of sacks is based on gauge-hole calculation.

Lead volume to be calculated to bring cement to 200'± above 9-5/8" casing shoe. Tail volume to be calculated to bring cement to 400'± above top of Wasatch.

Final Cement volumes will be based upon gauge-hole plus 45% excess.

#### HOSS 71-33 SW/SW, SEC. 33, T8S, R23E, S.L.B.&M.. UINTAH COUNTY, UTAH

#### 10. ABNORMAL CONDITIONS:

#### Surface Hole (Surface - 2500'±):

Lost circulation

#### Production Hole (2500'± - TD):

Sloughing shales, lost circulation and key seat development are possible in the Wasatch Formation.

#### 11. STANDARD REQUIRED EQUIPMENT:

- A. Choke Manifold
- B. Upper and Lower Kelly Cock
- C. Stabbing Valve
- D. Visual Mud Monitoring

#### 12. HAZARDOUS CHEMICALS:

No chemicals subject to reporting under SARA title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

#### 13. Air Drilling Operations:

- 1. Main Air Compressors are 1250 CFM 350 psi with 2000 psi Boosters and are rig mounted.
- 2. Secondary Air Compressors are 1170 CFM 350 psi with 2000 psi Boosters and are rig mounted.
- 3. Minimum setting depth of conductor casing will be 60' GL or 10'± into competent formation, whichever is deeper, as determined by the EOG person in charge. Exceptions must be approved by an EOG drilling superintendent or manager.
- 4. The diameter of the diverter flow line will be a minimum of 10" to help reduce back pressure on the well bore during uncontrolled flow.
- 5. Rat and Mouse hole drilling will occur only after surface casing has been set and cemented.
- 6. EOG Resources, Inc. will use a properly maintained and lubricated stripper head.

(Attachment: BOP Schematic Diagram)

### DIVISION OF OIL, GAS AND MINING

#### **SPUDDING INFORMATION**

Name of Cor	npany:_	E	OG RESO	URCI	ES INC			
Well Name	•	H	IOSS 71-3	3				
Api No <u>:</u>	43-04	<u>7-3971</u>	1	L	ease Type	FEDER	<b>A</b> L	
Section 33	_Towns	hip <u>08S</u>	Range_	23E	County	UINTAI	<b>H</b>	
Drilling Con	ntractor_	CRAI	G'S ROUS	STABO	OUT SERV	RIG #	19	
SPUDDE	D:							
	Date	1	<u>10/20/2010</u>	·				
	Time _	- A	9:00 AM					
	How_	242-00	DRY			·		
Drilling wi	II Com	mence	o:					
Reported by		1911	KERRY	<u> SAL</u>	ES			
Telephone #			(801) 59	08-508	7			
Date	10/20/2	010	_Signed	CI	łD			

#### STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

ENTITY ACTION FORM							
Operator:	EOG Resources, Inc.		Operator Account Number: N 9550				
Address:	1060 East Highway 40		Operator Account Number. N				
	city Vernal		<del></del>				
	state UT	<sub>zip</sub> 84078	Phone Number: (307) 276-4842				

Well 1

1-33 nt Entity		swsw	33	85	225	County
nt Entity	····			, 00	23E	UINTAH
mber	New Entity Number	Spud Date 10/20/2010		Entity Assignment Effective Date		
9999	11627			10/	10/28/10	
	9999	9999 11627	9999 11637 10	9999 //637 10/20/20		9999 11627 10/20/2010 10/2

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity New Entity Number Number		Spud Date		Entity Assignment Effective Date		
omments:	<u> </u>						

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
Comments:					·		

#### **ACTION CODES:**

- A Establish new entity for new well (single well only)
- B Add new well to existing entity (group or unit well)
- Re-assign well from one existing entity to another existing entity
- D Re-assign well from one existing entity to a new entity
- E Other (Explain in 'comments' section)

**RECEIVED** 

OCT 2 1 2010

Michelle Robles

Signature Regulatory Assistant 10/20/2010

Date

(5/2000)

	FORM 9					
	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU64422					
SUND	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:					
Do not use this form for propo bottom-hole depth, reenter plu DRILL form for such proposals	7.UNIT or CA AGREEMENT NAME: BADLANDS					
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: HOSS 71-33					
2. NAME OF OPERATOR: EOG Resources, Inc.	9. API NUMBER: 43047397140000					
3. ADDRESS OF OPERATOR: 1060 East Highway 40 , Verna	9. FIELD and POOL or WILDCAT: NATURAL BUTTES					
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0709 FSL 0190 FWL	COUNTY: UINTAH					
QTR/QTR, SECTION, TOWNSHI Qtr/Qtr: SWSW Section: 33	STATE: UTAH					
11. CHE	CK APPROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE, REPORT,	OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION					
	☐ ACIDIZE	☐ ALTER CASING	CASING REPAIR			
NOTICE OF INTENT Approximate date work will start:	✓ CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME			
10/28/2010	☐ CHANGE WELL STATUS	$\square$ commingle producing formations	☐ CONVERT WELL TYPE			
SUBSEQUENT REPORT	☐ DEEPEN	FRACTURE TREAT	☐ NEW CONSTRUCTION			
Date of Work Completion:	OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK			
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION			
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON			
	☐ TUBING REPAIR	☐ VENT OR FLARE	WATER DISPOSAL			
☐ DRILLING REPORT	☐ WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION			
Report Date:	☐ WILDCAT WELL DETERMINATION	OTHER	OTHER:			
12. DESCRIBE PROPOSED OR CO	OMPLETED OPERATIONS. Clearly show all per	tinent details including dates, depths, v	volumes. etc.			
EOG Resources, Inc.	respectfully requests authoriz e attached revised Drilling Pla Drilling Procedure change	ation to change the Drilling n reflecting the purposed				
		D	ate: November 02, 2010			
			y:			
NAME (PLEASE PRINT) Nanette Lupcho	<b>PHONE NUMBER</b> 435 781-9157	<b>TITLE</b> Regulatory Assistant				
SIGNATURE N/A		<b>DATE</b> 10/28/2010				

# **HOSS 71-33**

# SW/SW, SEC. 33, T8S, R23E, S.L.B.&M.. UINTAH COUNTY, UTAH

#### **REVISED 10-27-2010**

# 1. & 2. ESTIMATED TOPS & ANTICIPATED OIL, GAS, & WATER ZONES:

FORMATION	TVD-RKB (ft)	Objective	Lithology	
Green River	1,816		Shale	
Birdsnest	2,111		Dolomite	
Mahogany Oil Shale Bed	2,741		Shale	
Wasatch	5,018	Primary	Sandstone	Gas
Chapita Wells	5,621	Primary	Sandstone	Gas
Buck Canyon	6,300	Primary	Sandstone	Gas
North Horn	6,909	Primary	Sandstone	Gas
KMV Price River	7,403	Primary	Sandstone	Gas
KMV Price River Middle	8,149	Primary	Sandstone	Gas
KMV Price River Lower	8,940	Primary	Sandstone	Gas
Sego	9,503		Sandstone	
TD	9,700			

Estimated TD: 9,700' or 200'± below TD

Anticipated BHP: 5,300 psi

- 1. Fresh Waters may exist in the upper, approximately 1,000 ft  $\pm$  of the Green River Formation, with top at about 1,800 ft  $\pm$ .
- 2. Cement isolation is installed to surface of the well isolating all zones by cement.

## 3. PRESSURE CONTROL EQUIPMENT:

Production Hole – 5000 psi BOP schematic diagrams attached.

## 4. CASING PROGRAM:

	<u>Hole</u>	<u>Length</u>	Size	<b>WEIGHT</b>	<b>Grade</b>	<b>Thread</b>	Rating	<b>Factor</b>	
CASING	<u>Size</u>						Collapse	<b>Burst</b>	<b>Tensile</b>
Conductor	20"	0 – 60'	14"	48.0#	H-40	STC	770 PSI	1730 PSI	322,000#
0 (	40.1/11	0 – 2500' KB±	0.5/11	00.0#		0.70	0000 001	0500 D.:	004.000#
Surface	12 1/4"	0 - 2300 KBI	9-5/8"	36.0#	J-55	STC	2020 PSI	3520 Psi	394,000#
<b>Production</b>	7-7/8"	Surface - TD	4-1/2"	11.6#	N-80	LTC	6350 PSI	7780 Psi	233,000#

Note:  $12-\frac{1}{4}$ " surface hole will be drilled to a total depth of 200'± below the base of the Green River lost circulation zone and cased w/9- $\frac{5}{8}$ " as shown to that depth. Drilled depth may be shallower or deeper than the 2500' shown above depending on the actual depth of the loss zone.

All casing will be new or inspected.



# HOSS 71-33 SW/SW, SEC. 33, T8S, R23E, S.L.B.&M.. UINTAH COUNTY, UTAH

# 5. Float Equipment:

## Surface Hole Procedure (0'- 2500'±)

Guide Shoe

Insert Float Collar (PDC drillable)

Centralizers: 1-5' above shoe, top of jts. #2 and #3 then every 5<sup>th</sup> joint to surface. (8-15 total)

# **Production Hole Procedure (2500'± - TD):**

Float shoe, 1 joint of casing, float collar and balance of casing to surface.  $4-\frac{1}{2}$ ", 11.6#, N-80 or equivalent marker collars or short casing joints to be placed at top of Price River and 400' above top of Wasatch. 1 turbulizer to be placed 5' above shoe on joint #1 and on the middle of joints #2 & #3. Conventional bow-spring centralizer on top of joint #4, then every  $3^{rd}$  joint to 400' above the top of primary objective. Thread lock float shoe, top and bottom of float collar, and top of  $2^{nd}$  joint.

# 6. MUD PROGRAM

#### Surface Hole Procedure (Surface - 2500'±):

Air/air mist or aerated water.

## Production Hole Procedure (2500'± - TD):

Anticipated mud weight 9.5 – 10.5 ppg depending on actual wellbore conditions encountered while drilling.

2500'±-TD A closed mud system will be utilized. A bentonite gelled water mud system will be used to control viscosity w/PHPA polymer used for supplemental viscosity and clay encapsulation/inhibition. Water loss will be maintained at <15cc's using white starch or PAC. Bactericides will be used as needed. Anticipated pH will range from 9.0-10.0. Mud weight will be adjusted as necessary for well control. Deflocculants/thinners will be used as necessary to maintain mud quality. LCM sweeps will be utilized as necessary to control lost circulation and mud loss. CO2 contamination, if encountered, will be treated with lime and gypsum.

# MOSS 71-33 SW/SW, SEC. 33, T8S, R23E, S.L.B.&M.. UINTAH COUNTY, UTAH

# 7. VARIANCE REQUESTS:

Reference: Onshore Oil and Gas Order No. 1

Onshore Oil and Gas Order No. 2 - Section E: Special Drilling Operations

- EOG Resources, Inc. requests a variance to regulations requiring a straight run blooie line to be 100' in length. (Where possible, a straight run blooie line will be used).
- EOG Resources, Inc. requests a variance to regulations requiring the blooie line to be 100' in length. To reduce location excavation, the blooie line will be approximately 75' in length.
- EOG Resources, Inc. requests a variance to regulations, during air drilling operations only, requiring dedusting equipment. Dust during air drilling operations is controlled by water mist.
- o EOG Resources, Inc. requests a variance to regulations, during air drilling operations only, requiring an automatic igniter or continuous pilot light on the blooie line. (Not required on aerated water system).
- o EOG Resources, Inc. requests a variance that compressors are located in the opposite direction from the blooie line a minimum of 100 feet from the well bore. (Air Compressors are rig mounted).

#### 8. EVALUATION PROGRAM:

**Logs:** Mud log from base of surface casing to TD.

Cased-hole Logs: Cased-hole logs will be run in lieu of open-hole logs consisting of the following:

**Cement Bond / Casing Collar Locator and Pulsed Neutron** 



# **HOSS 71-33**

# SW/SW, SEC. 33, T8S, R23E, S.L.B.&M.. UINTAH COUNTY, UTAH

## 9. CEMENT PROGRAM:

## Surface Hole Procedure (Surface - 2500'±):

Lead: 170 sks Class "G" cement with 16% Gel, 10 #/sx Gilsonite, 3% Salt, 2% CaCl<sub>2</sub>,

3 lb/sx GR3 ¼ #/sx Flocele mixed at 11 ppg, 3.82 ft<sup>3</sup>/sk. yield, 23 gps water.

Tail: 150 sks Class "G" cement with 2% CaCl<sub>2</sub>, ¼#/sk Flocele mixed at 15.6 ppg, 1.18 ft<sup>3</sup>/sk.,

5.2 gps water.

**Top Out:** As necessary with Class "G" cement with 2% CaCl<sub>2</sub>, ¼#/sk Flocele mixed at 15.6

ppg, 1.18 ft<sup>3</sup>/sk., 5.2 gps water.

Note: Cement volumes will be calculated to bring lead cement to surface and tail

cement to 500'above the casing shoe.

The above volumes are based on gauge hole with no excess.

#### **Production Hole Procedure (2500'± - TD)**

**Lead:** Lead volume to be calculated to bring cement from 400' above top of Wasatch Formation to 200'± above 9 5/8" surface casing shoe. For improved mud displacement, lead slurry weight will be a minimum of 0.5 ppg over mud weight utilized at well TD and vary from 11.0 – 13.0 ppg.

If lead slurry weight required is 11.0 ppg – 12.5 ppg, cement will be:

HES Highbond 75 (75/25 Poz/G) + 6% Bentonite (Extender) + 0.3% Versaset (Thixotropic Additive) + 2% Microbond (Expansion Additive)

Calculated sacks with corresponding mixed slurry weights, yields and water requirements for above cement will be as follows:

- 210 sx. if 11.0 ppg, 2.52 cfps, 14.96 gps fresh water
- 250 sx. if 11.5 ppg, 2.12 cfps, 11.98 gps fresh water
- 290 sx. if 12.0 ppg, 1.83 cfps, 9.82 gps fresh water
- 330 sx. if 12.5 ppg, 1.61 cfps, 8.17 gps fresh water

If lead slurry weight required is 13.0 ppg, cement will be:

325 sx. HES ExtendaCem (50/50 Poz/G) + 0.125 pps Pol-E-Flake (Lost Circulation Additive), mixed at 13.0 ppg, 1.63 cfps, 8.16 gps fresh water

**Tail:** Tail volume to be calculated to bring cement from TD to 400' above top of Wasatch Formation. Tail cement will be:

790 sx. HES ExtendaCem (50/50 Poz/G) + 0.125 pps Pol-E-Flake (Lost Circulation Additive), mixed at 13.5 ppg, 1.47 cfps, 6.98 gps fresh water

Note: The above number of sacks in all cases are calculated based on gauge hole. Final field cement volumes will be based on gauge hole plus 50% excess on the lead slurry and gauge hole plus 70% excess on the tail slurry.

# HOSS 71-33 SW/SW, SEC. 33, T8S, R23E, S.L.B.&M.. UINTAH COUNTY, UTAH

## 10. ABNORMAL CONDITIONS:

#### Surface Hole (Surface - 2500'±):

Lost circulation

#### Production Hole (2500'± - TD):

Sloughing shales, lost circulation and key seat development are possible in the Wasatch Formation.

## 11. STANDARD REQUIRED EQUIPMENT:

- A. Choke Manifold
- B. Upper and Lower Kelly Cock
- C. Stabbing Valve
- D. Visual Mud Monitoring

## 12. HAZARDOUS CHEMICALS:

No chemicals subject to reporting under SARA title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

## 13. Air Drilling Operations:

- 1. Main Air Compressors are 1250 CFM 350 psi with 2000 psi Boosters and are rig mounted.
- 2. Secondary Air Compressors are 1170 CFM 350 psi with 2000 psi Boosters and are rig mounted.
- 3. Minimum setting depth of conductor casing will be 60' GL or 10'± into competent formation, whichever is deeper, as determined by the EOG person in charge. Exceptions must be approved by an EOG drilling superintendent or manager.
- 4. The diameter of the diverter flow line will be a minimum of 10" to help reduce back pressure on the well bore during uncontrolled flow.
- 5. Rat and Mouse hole drilling will occur only after surface casing has been set and cemented.
- 6. EOG Resources, Inc. will use a properly maintained and lubricated stripper head.

(Attachment: BOP Schematic Diagram)

	STATE OF UTAH		FORM 9				
	DEPARTMENT OF NATURAL RESOUR DIVISION OF OIL, GAS, AND ME		5		ASE DESIGNATION AND SERIAL NUMBER: 64422		
	RY NOTICES AND REPORTS		_	6. IF	INDIAN, ALLOTTEE OR TRIBE NAME:		
	sals to drill new wells, significantly deepe ugged wells, or to drill horizontal laterals.				IT or CA AGREEMENT NAME: LANDS		
1. TYPE OF WELL Gas Well					8. WELL NAME and NUMBER: HOSS 71-33		
2. NAME OF OPERATOR: EOG Resources, Inc.		I NUMBER: 47397140000					
3. ADDRESS OF OPERATOR: 1060 East Highway 40 , Verna	<b>3. ADDRESS OF OPERATOR:</b> 1060 East Highway 40 , Vernal, UT, 84078  PHONE NUMBER: 435 781-9111 Ext						
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0709 FSL 0190 FWL		COUN UIN					
QTR/QTR, SECTION, TOWNSHI Qtr/Qtr: SWSW Section: 33	rp, Range, Meridian: 3 Township: 08.0S Range: 23.0E Meridian	n: S		STAT UTA			
CHE	CK APPROPRIATE BOXES TO INDICA	ATE NA	ATURE OF NOTICE, REPOR	Γ, OR O	THER DATA		
TYPE OF SUBMISSION			TYPE OF ACTION				
_	ACIDIZE		ALTER CASING	[	CASING REPAIR		
NOTICE OF INTENT Approximate date work will start:	☐ CHANGE TO PREVIOUS PLANS ☐ CHANGE WELL STATUS		CHANGE TUBING  COMMINGLE PRODUCING FORMATION:		CHANGE WELL NAME  CONVERT WELL TYPE		
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN		RACTURE TREAT	· [	□ NEW CONSTRUCTION		
Date of work completion:	OPERATOR CHANGE	□ <b>F</b>	PLUG AND ABANDON	[	PLUG BACK		
SPUD REPORT	PRODUCTION START OR RESUME	□ F	RECLAMATION OF WELL SITE	[	RECOMPLETE DIFFERENT FORMATION		
Date of Spud:	REPERFORATE CURRENT FORMATION	□ s	SIDETRACK TO REPAIR WELL	[	TEMPORARY ABANDON		
	☐ TUBING REPAIR		/ENT OR FLARE	[	WATER DISPOSAL		
✓ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	s	SI TA STATUS EXTENSION	[	APD EXTENSION		
11/3/2010	☐ WILDCAT WELL DETERMINATION		OTHER	0	THER:		
l .	pmpleted operations. Clearly show all pred well chronology report for all activity up to 11/3/1	the 10.	referenced well show	ing Acce Utah Oil, Ga	pted by the Division of as and Mining ECORD ONLY		
Michelle Robles	307 276-4842		Regulatory Assistant				
SIGNATURE N/A			<b>DATE</b> 11/3/2010				

# WELL CHRONOLOGY REPORT

Report Generated On: 11-03-2010

Well Name	HOSS 071-33	Well Type	DEVG	Division	DENVER			
Field	PONDEROSA	API#	43-047-39714	Well Class	DRIL			
County, State	UINTAH, UT	Spud Date		Class Date				
Tax Credit	N	TVD / MD	9,700/ 9,700	Property #	061540			
Water Depth	0	Last CSG	9.625	Shoe TVD / MD	2,710/ 2,710			
KB / GL Elev	4,988/ 4,972							
Location	Section 33, T8S, R23E, SWS	W, 709 FSL & 190 FW	TL					

<b>Event No</b>	1.0	Desc	ription DR	RILL & COMPLET	E			
Operator	EOG RESOUR	CES, INC WI %	<b>6</b> 100	0.0	NRI %		67.0	
AFE No	304722	AFI	E Total	1,641,900	DHC / C	WC	660,500/ 981	,400
Rig Contr	TRUE	Rig Name	TRUE #34	Start Date	12-09-2008	Release 1	Date	
12-09-2008	Reported By	SHEILA	MALLOY					
DailyCosts: D	rilling \$0		Completion	\$0	Daily	Total	\$0	
Cum Costs: D	rilling \$0		Completion	\$0	Well	Total	\$0	
MD	0 <b>TVD</b>	0 Prog	gress 0	Days	0 <b>MW</b>	0.0	Visc	0.0
Formation:		<b>PBTD</b> : 0.0		Perf:		PKR De	<b>pth:</b> 0.0	

Activity at Report Time: LOCATION DATA

Start End Hrs Activity Description

06:00 06:00 24.0 LOCATION DATA (PROG 10/12/10)

709' FSL & 190' FWL (SW/SW) SECTION 33, T8S, R23E UINTAH COUNTY, UTAH

LAT 40.073972, LONG 109.340178 (NAD 27) LAT 40.073936, LONG 109.340858 (NAD 83)

TRUE #34

OBJECTIVE: 9700' TD, MESAVERDE

DW/GAS

PONDEROSA PROSPECT DD&A: CHAPITA DEEP NATURAL BUTTES FIELD

LEASE: U-64422

ELEVATION: 4973.1' NAT GL, 4972.4' PREP GL (DUE TO ROUNDING THE PREP GL WILL BE 4972') 4991' KB

(19')

EOG WI 100%, NRI 67%

10–14–2010 Reported By TERRY CSERE

DailyCosts: Drilling	\$75,000	)	Com	pletion	\$0		Dail	y Total	\$75,000	
<b>Cum Costs: Drilling</b>	\$75,000	)	Com	pletion	\$0		Well	Total	\$75,000	
<b>MD</b> 0	TVD	0	Progress	0	Days	0	MW	0.0	Visc	0.0
Formation :	I	<b>PBTD</b> : 0.0	0		Perf:			PKR De	<b>pth:</b> 0.0	
Activity at Report T	ime: BUILD LC	CATION								
Start End	Hrs Activ	vity Descr	ription							
06:00 06:00	24.0 BEG	AN CONST	TRUCTION OF	LOCATIO	ON TODAY, 10	/14/10.				
10-15-2010 F	Reported By	TE	RRY CSERE							
DailyCosts: Drilling			Com	pletion	\$0		Dail	y Total	\$0	
<b>Cum Costs: Drilling</b>	\$75,000	)	Com	pletion	\$0		Well	Total	\$75,000	
<b>MD</b> 0	TVD	0	Progress	0	Days	0	MW	0.0	Visc	0.0
Formation:	I	<b>PBTD</b> : 0.0	0		Perf:			PKR De	<b>pth:</b> 0.0	
Activity at Report T	ime: BUILD LC	CATION								
Start End	Hrs Activ	vity Descr	ription							
06:00 06:00	24.0 LOC	ATION 109	% COMPLETE.							
10-18-2010 F	Reported By	TE	RRY CSERE							
DailyCosts: Drilling	\$0		Com	pletion	\$0		Dail	y Total	\$0	
Cum Costs: Drilling	\$75,000	)	Com	pletion	\$0		Well	Total	\$75,000	
Cum Costs: Dimme					D	0	MW	0.0	Visc	0.0
_	TVD	0	Progress	0	Days	U	11211			
_		0 <b>PBTD:</b> 0.0	_	0	Days Perf :	Ü	212 77	PKR De	<b>pth:</b> 0.0	
MD 0 Formation:	I	<b>PBTD</b> : 0.0	_	0	=	O	2.2,,	PKR De	<b>pth:</b> 0.0	
MD 0  Formation: Activity at Report T	Iime: BUILD LO	<b>PBTD</b> : 0.0	0	0	=	Ü	21211	PKR De	<b>pth:</b> 0.0	
MD 0  Formation: Activity at Report T	ime: BUILD LC Hrs Activ 24.0 LOCA SET - NOT	PBTD: 0.0 DCATION VITY Descr ATION 509 14/-60' OF 1 UFIED BY 1	0	CRAIG'S OR. CEM AGE AND	Perf:  ROUSTABOU ENT TO SURF	JT SERVIC FACE WITH	CE SPUDS A H READY M	20" HOLE OI	N 10/20/2010 @ DANIELS W/UI	OGM WAS
MD 0 Formation: Activity at Report T Start End 06:00 06:00	ime: BUILD LC Hrs Activ 24.0 LOCA SET - NOT	PBTD: 0.0 OCATION vity Descr ATION 509 +/-60' OF 1 IFIED BY I	oription % COMPLETE. 14" CONDUCT PHONE MESS/	CRAIG'S OR. CEM AGE AND	Perf:  ROUSTABOU ENT TO SURF	JT SERVIC FACE WITH	CE SPUDS A H READY M	20" HOLE OI	N 10/20/2010 @ DANIELS W/UI	OGM WAS
MD 0  Formation: Activity at Report T  Start End 06:00 06:00	ime: BUILD LC Hrs Activ 24.0 LOC. SET - NOTE NOTE	PBTD: 0.0 OCATION vity Descr ATION 509 +/-60' OF 1 IFIED BY I	ription 6 COMPLETE. 14" CONDUCT PHONE MESSA NS SENT ON 10 ERRY CSERE	CRAIG'S OR. CEM AGE AND )/18/2010.	Perf:  ROUSTABOU ENT TO SURF	JT SERVIC FACE WITH	CE SPUDS A H READY M Y EMAIL O	20" HOLE OI IX. CAROL E F SPUD ON 1	N 10/20/2010 @ DANIELS W/UI	OGM WAS
MD 0  Formation: Activity at Report T  Start End 06:00 06:00	Fime: BUILD LC Hrs Activ 24.0 LOC. SET - NOTE NOTE Reported By \$0	PBTD: 0.0 CCATION wity Descr ATION 50% +/-60' OF: IFIED BY I IFICATION	ription % COMPLETE. 14" CONDUCT PHONE MESSA NS SENT ON 10 RRY CSERE Com	CRAIG'S OR. CEM AGE AND	Perf:  ROUSTABOU ENT TO SURF BLM WAS NO	JT SERVIC FACE WITH	CE SPUDS A H READY M Y EMAIL O Dail	20" HOLE OI	N 10/20/2010 @ DANIELS W/UI 0/20/10 @ 09:0	OGM WAS
MD 0  Formation: Activity at Report T  Start End 06:00 06:00  10–19–2010 F  DailyCosts: Drilling Cum Costs: Drilling	Fime: BUILD LC Hrs Activ 24.0 LOC. SET - NOTE NOTE Reported By \$0	PBTD: 0.0 CCATION wity Descr ATION 50% +/-60' OF: IFIED BY I IFICATION	ription % COMPLETE. 14" CONDUCT PHONE MESSA NS SENT ON 10 RRY CSERE Com Com	CRAIG'S OR. CEM AGE AND 0/18/2010. apletion	Perf:  ROUSTABOU ENT TO SURF BLM WAS NO	JT SERVIC FACE WITH	CE SPUDS A H READY M Y EMAIL O Dail Well	20" HOLE OI IX. CAROL E F SPUD ON 1 y <b>Total</b>	N 10/20/2010 @ DANIELS W/UI 0/20/10 @ 09:0 \$0	OGM WAS
MD 0  Formation: Activity at Report T  Start End 06:00 06:00  10-19-2010 F  DailyCosts: Drilling Cum Costs: Drilling	Hrs Active 24.0 LOC. SET NOTE NOTE NOTE SEPORTED BY \$0 \$75,000 TVD	PBTD: 0.0 PCATION VITY Description 509 +/-60' OF 1 IFIED BY I IFICATION TE	ription % COMPLETE. 14" CONDUCT PHONE MESSA NS SENT ON 10 ERRY CSERE Com Com Progress	CRAIG'S OR. CEM AGE AND 0/18/2010. apletion	Perf:  ROUSTABOU ENT TO SURF BLM WAS NO	UT SERVIC FACE WITH OTIFIED B	CE SPUDS A H READY M Y EMAIL O Dail	20" HOLE OI IX. CAROL E F SPUD ON 1 y Total	N 10/20/2010 @ DANIELS W/UI 0/20/10 @ 09:0 \$0 \$75,000 Visc	OOGM WAS 0 AM.
MD 0  Formation: Activity at Report T  Start End 06:00 06:00  10-19-2010 F  DailyCosts: Drilling Cum Costs: Drilling MD 0  Formation:	Hrs Active 24.0 LOCA SET NOTE NOTE SEPORTED BY \$0 \$75,000 TVD	PBTD: 0.0 PCATION  vity Description 509 +/-60' OF 1 IFICATION  TE  0 PBTD: 0.0	ription % COMPLETE. 14" CONDUCT PHONE MESSA NS SENT ON 10 ERRY CSERE Com Com Progress	CRAIG'S OR. CEM AGE AND 0/18/2010. apletion	Perf:  ROUSTABOUENT TO SURF BLM WAS NO \$0  \$0  Days	UT SERVIC FACE WITH OTIFIED B	CE SPUDS A H READY M Y EMAIL O Dail Well	20" HOLE OF IX. CAROL EF SPUD ON 1  y Total  1 Total	N 10/20/2010 @ DANIELS W/UI 0/20/10 @ 09:0 \$0 \$75,000 Visc	OOGM WAS
MD 0  Formation: Activity at Report T  Start End 06:00 06:00  10-19-2010 F  DailyCosts: Drilling Cum Costs: Drilling MD 0  Formation: Activity at Report T	ime: BUILD LC  Hrs Activ 24.0 LOC. SET- NOTE NOTE Reported By \$0 \$75,000 TVD Ime: BUILD LC	PBTD: 0.0 CATION  vity Description ATION 509 4/-60' OF 1 IFIED BY I IFICATION  TE  0 0 PBTD: 0.0 CATION	ription % COMPLETE. 14" CONDUCT PHONE MESSA NS SENT ON 10 ERRY CSERE  Com Com Progress	CRAIG'S OR. CEM AGE AND 0/18/2010. apletion	Perf:  ROUSTABOUENT TO SURF BLM WAS NO \$0  \$0  Days	UT SERVIC FACE WITH OTIFIED B	CE SPUDS A H READY M Y EMAIL O Dail Well	20" HOLE OF IX. CAROL EF SPUD ON 1  y Total  1 Total	N 10/20/2010 @ DANIELS W/UI 0/20/10 @ 09:0 \$0 \$75,000 Visc	OOGM WAS
MD 0  Formation: Activity at Report T  Start End 06:00 06:00  10-19-2010 F  DailyCosts: Drilling Cum Costs: Drilling MD 0  Formation: Activity at Report T	Hrs Activates BUILD LC  Hrs Activates Activates Activates Build LC  Hrs Activates Build LC  Hrs Activates Build LC  Hrs Activates Build LC  Hrs Activates Build LC	PBTD: 0.0 PCATION  vity Description  ATION 509 +/-60' OF 1 IFIED BY IFIED BY IFIED BY IFIED BY IFIED  0 PBTD: 0.0 PCATION  vity Description	ription % COMPLETE. 14" CONDUCT PHONE MESSA NS SENT ON 10 ERRY CSERE  Com Com Progress	CRAIG'S OR. CEM AGE AND 0/18/2010.  expletion pletion 0	Perf:  ROUSTABOUENT TO SURF BLM WAS NO  \$0 \$0 Days Perf:	UT SERVIC FACE WITH DTIFIED B	CE SPUDS A H READY M Y EMAIL O Dail Well	20" HOLE OF IX. CAROL EF SPUD ON 1  y Total  1 Total	N 10/20/2010 @ DANIELS W/UI 0/20/10 @ 09:0 \$0 \$75,000 Visc	OOGM WAS
MD 0 Formation: Activity at Report T Start End 06:00 06:00  10-19-2010 F DailyCosts: Drilling Cum Costs: Drilling MD 0 Formation: Activity at Report T Start End 06:00 06:00	ime: BUILD LC  Hrs Activ 24.0 LOC. SET-NOTE NOTE Reported By \$0 \$75,000 TVD Ime: BUILD LC Hrs Activ 24.0 LOC.	PBTD: 0.0 CATION vity Description ATION 509 4/-60' OF 1 IFIED BY I IFICATION TE  O CATION vity Description vity Description CO	ription % COMPLETE. 14" CONDUCT PHONE MESSA NS SENT ON 10 RRY CSERE Com Com Progress 0	CRAIG'S OR. CEM AGE AND 0/18/2010.  expletion pletion 0	Perf:  ROUSTABOUENT TO SURF BLM WAS NO  \$0 \$0 Days Perf:	UT SERVIC FACE WITH DTIFIED B	CE SPUDS A H READY M Y EMAIL O Dail Well	20" HOLE OF IX. CAROL EF SPUD ON 1  y Total  1 Total	N 10/20/2010 @ DANIELS W/UI 0/20/10 @ 09:0 \$0 \$75,000 Visc	OOGM WAS
MD 0 Formation: Activity at Report T Start End 06:00 06:00  10-19-2010 F DailyCosts: Drilling MD 0 Formation: Activity at Report T Start End 06:00 06:00  10-20-2010 F	Hrs Active 24.0 LOC.  SET NOTE NOTE NOTE NOTE NOTE NOTE NOTE NO	PBTD: 0.0 CATION vity Description ATION 509 4/-60' OF 1 IFIED BY I IFICATION TE  O CATION vity Description vity Description CO	ription % COMPLETE. 14" CONDUCT PHONE MESSA NS SENT ON 10 RRRY CSERE  Com Progress 0 ription MPLETE. STAL	CRAIG'S OR. CEM AGE AND 0/18/2010.  apletion 0	Perf:  ROUSTABOUENT TO SURFELM WAS NOT SURFELD	UT SERVIC FACE WITH DTIFIED B	CE SPUDS A H READY M Y EMAIL O Dail Well MW	20" HOLE OI IX. CAROL I F SPUD ON 1  y Total  0.0  PKR De	N 10/20/2010 @ DANIELS W/UI 0/20/10 @ 09:0  \$0 \$75,000  Visc pth: 0.0	OOGM WAS 0 AM.
MD 0 Formation: Activity at Report T Start End 06:00 06:00  10-19-2010 F DailyCosts: Drilling MD 0 Formation: Activity at Report T Start End 06:00 06:00  10-20-2010 F	ime: BUILD LO  Hrs Activ 24.0 LOC. SET-NOTE NOTE Seported By \$0 \$75,000  TVD  Ime: BUILD LOC. Hrs Activ 24.0 LOC. Seported By \$0 \$0 \$75,000	PBTD: 0.0 CATION vity Description 509 4/-60' OF 1 FIED BY I FICATION TE  O CATION TE  O CATION TE  O CATION TE  ATION CO TE	ription % COMPLETE. 14" CONDUCT PHONE MESSA NS SENT ON 10 RRY CSERE  Com Com Progress 0 ription MPLETE. STAL RRY CSERE  Com	CRAIG'S OR. CEM AGE AND 0/18/2010.  expletion pletion 0	Perf:  ROUSTABOUENT TO SURF BLM WAS NO  \$0 \$0 Days Perf:	UT SERVIC FACE WITH DTIFIED B	CE SPUDS A H READY M Y EMAIL O Dail Well MW	20" HOLE OF IX. CAROL EF SPUD ON 1  y Total  1 Total	N 10/20/2010 @ DANIELS W/UI 0/20/10 @ 09:0 \$0 \$75,000 Visc	OOGM WAS 0 AM.
MD 0 Formation: Activity at Report T Start End 06:00 06:00  10–19–2010 F DailyCosts: Drilling MD 0 Formation: Activity at Report T Start End 06:00 06:00  10–20–2010 F DailyCosts: Drilling	ime: BUILD LO  Hrs Activ 24.0 LOC. SET-NOTE NOTE Seported By \$0 \$75,000  TVD  Ime: BUILD LOC. Hrs Activ 24.0 LOC. Seported By \$0 \$0 \$75,000	PBTD: 0.0 CATION vity Description 509 4/-60' OF 1 FIED BY I FICATION TE  O CATION TE  O CATION TE  O CATION TE  ATION CO TE	ription % COMPLETE. 14" CONDUCT PHONE MESSA NS SENT ON 10 ERRY CSERE  Com Progress 0 ription MPLETE. STALE ERRY CSERE  Com Com Com Com Com Com Com Com Com	CRAIG'S OR. CEM AGE AND 0/18/2010.  upletion 0  RTING CI upletion upletion	Perf:  ROUSTABOUENT TO SURF BLM WAS NO  \$0 \$0 Days Perf:	UT SERVIC FACE WITH DTIFIED B	CE SPUDS A H READY M Y EMAIL O Dail Well MW	20" HOLE OI IX. CAROL I F SPUD ON 1 y Total 0.0 PKR De	\$0 \$75,000 \$0 \$75,000 \$0 \$75,000	OOGM WAS
MD 0 Formation: Activity at Report T Start End 06:00 06:00  10-19-2010 F DailyCosts: Drilling MD 0 Formation: Activity at Report T Start End 06:00 06:00  10-20-2010 F DailyCosts: Drilling Cum Costs: Drilling	## Active 24.0 LOC. SET - NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE	PBTD: 0.0 PCATION  vity Description  ATION 509 +/-60' OF: IFIED BY I IFICATION  TE  O PBTD: 0.0 PCATION  vity Description  ATION CO  TE	ription % COMPLETE. 14" CONDUCT PHONE MESSANS SENT ON 10 RRY CSERE Com Com Progress 0 ription MPLETE. STAL RRY CSERE Com Com Progress	CRAIG'S OR. CEM AGE AND 0/18/2010.  upletion 0  RTING CI	Perf:  ROUSTABOUENT TO SURF BLM WAS NO  \$0 \$0 Days Perf:  COSED LOOP.  \$0 \$0 Days	UT SERVIC FACE WITH OTIFIED B	CE SPUDS A H READY M Y EMAIL O Dail Well MW	20" HOLE OI IX. CAROL E F SPUD ON 1  y Total  0.0  PKR De y Total  1 Total  0.0	\$0 \$75,000  \$0 \$75,000  \$0 \$75,000  \$0 \$75,000	OOGM WAS 0 AM.
MD 0 Formation: Activity at Report T Start End 06:00 06:00  10–19–2010 F DailyCosts: Drilling MD 0 Formation: Activity at Report T Start End 06:00 06:00  10–20–2010 F DailyCosts: Drilling	ime: BUILD LC  Hrs Active 24.0 LOC. SET-NOTE NOTE NOTE SEPORTED By \$0 \$75,000  TVD  Hrs Active 24.0 LOC. SEPORTED By \$0 \$0 \$75,000  TVD  TVD  TVD  TVD  TVD  TVD  TVD	PBTD: 0.0 PCATION  VITY Description  ATION 509 14-60' OF 14 IFICATION  TE  PBTD: 0.0 PCATION  VITY DESCRIPTION  ATION CO  TE  60 PBTD: 0.0	ription % COMPLETE. 14" CONDUCT PHONE MESSANS SENT ON 10 RRY CSERE Com Com Progress 0 ription MPLETE. STAL RRY CSERE Com Com Progress	CRAIG'S OR. CEM AGE AND 0/18/2010.  upletion 0  RTING CI upletion upletion	Perf:  ROUSTABOUENT TO SURF BLM WAS NO  \$0 \$0 Days Perf:	UT SERVIC FACE WITH OTIFIED B	CE SPUDS A H READY M Y EMAIL O Dail Well MW	20" HOLE OI IX. CAROL E F SPUD ON 1  y Total  0.0  PKR De y Total	\$0 \$75,000  \$0 \$75,000  \$0 \$75,000  \$0 \$75,000	OOGM WAS

06:00 06:00 24.0 CLOSED LOOP, 30% COMPLETE. - CRAIG'S ROUSTABOUT SPUD A 20" HOLE ON 10/20/10 @ 09:00 HRS, SET 60' OF 14" CONDUCTOR. CEMENT TO SURFACE WITH READY MIX. CAROL DANIELS W/UDOGM WAS NOTIFIED BY PHONE MESSAGE AND BLM WAS NOTIFIED BY EMAIL OF SPUD ON 10/18/10 @ 1:46 PM. TERRY CSERE 10-21-2010 Reported By \$0 \$0 DailyCosts: Drilling Completion \$0 **Daily Total Cum Costs: Drilling** \$75,000 Completion \$0 **Well Total** \$75,000 60 TVD 60 0 MW0.0 MD **Progress** Days Visc Formation: **PBTD**: 0.0 Perf: PKR Depth: 0.0 Activity at Report Time: BUILD LOCATION Start End Hrs **Activity Description** 24.0 CLOSED LOOP 80% COMPLETE. 06:00 06:00 10-22-2010 Reported By TERRY CSERE DailyCosts: Drilling \$0 **Daily Total** \$0 Completion \$0 **Cum Costs: Drilling** \$75,000 Completion \$0 **Well Total** \$75,000 60 0 0.0 0.0 **TVD** 60 0 MW MD **Progress** Days Visc **PBTD**: 0.0 PKR Depth: 0.0 Formation: Perf: **Activity at Report Time: WORT Activity Description** Start End Hrs 06:00 06:00 24.0 LOCATION COMPLETE, WORT. 11-02-2010 BOBBY LAIN Reported By DailyCosts: Drilling \$205,691 Completion \$0 **Daily Total** \$205,691 **Cum Costs: Drilling** \$280,691 Completion \$0 **Well Total** \$280,691 2,710 TVD 2,710 MW0.0 0.0 MD **Progress** Visc Days Formation: **PBTD**: 0.0 Perf: PKR Depth: 0.0 Activity at Report Time: WORT **Activity Description** Start End Hrs 06:00 06:00 24.0 MIRU CRAIG'S AIR RIG #2 ON 10/23/2010. DRILLED 12-1/4" HOLE TO 2700' GL (2719' KB). PUMP DRILLED FROM SURFACE TO TD WITH PARTIAL RETURNS. RAN 62 JTS (2691.33') OF 9-5/8", 36.0#, J-55, ST&C CASING WITH HALLIBURTON GUIDE SHOE AND FLOAT COLLAR. 15 CENTRALIZERS SPACED MIDDLE OF SHOE JOINT AND EVERY COLLAR TILL GONE. LANDED @ 2710.33' KB, RAN 200' OF 1" PIPE DOWN BACK SIDE. RDMO CRAIG'S AIR RIG #2. MIRU HALLIBURTON CEMENTERS. HELD SAFETY MEETING, PRESSURE TESTED LINES AND CEMENT VALVE TO 3500 PSIG. PUMPED 10 BBLS FRESH WATER & 20 BBLS GELLED WATER FLUSH AHEAD OF CEMENT. LEAD: MIXED AND PUMPED 250 SACKS (183 BBLS) OF PREMIUM LEAD CEMENT WITH 0.3% VARSET, 2% CAL-SEAL, AND 2% ECONOLITE. MIXED LEAD CEMENT @ 10.5 PPG WITH YIELD OF 4.1 CF/SX. TAIL: MIXED AND PUMPED 300 SACKS (63 BBLS) OF PREMIUM CEMENT WITH 2% CACL2 MIXED TAIL CEMENT @ 15.6 PPG WITH YIELD OF 1.18 CF/SX. DISPLACED CEMENT WITH 205 BBLS FRESH WATER. BUMPED PLUG WITH 840# @ 13:14 PM ON 11/1/10. FLOAT DID NOT HOLD. SHUT-IN CASING VALVE. BROKE CIRCULATION 5 BBLS INTO FRESH WATER FLUSH. NO CEMENT TO SURFACE. WOC 4 HR 30 MIN.

TOP JOB #1: PUMP DOWN 200' OF 1' PIPE. MIXED & PUMPED 75 SX (16 BBLS) OF PREMIUM CEMENT WITH 2% CACL2. MIXED CEMENT @ 15.8 PPG WITH YIELD OF 1.15 CF/SX. NO RETURNS. WOC 2 HR.

TOP JOB #2: PUMP DOWN 200' OF 1' PIPE. MIXED & PUMPED 100 SX (21 BBLS) OF PREMIUM CEMENT WITH 2% CACL2. MIXED CEMENT @ 15.8 PPG WITH YIELD OF 1.15 CF/SX. NO RETURNS. WOC 4 HR 15 MIN.

TOP JOB #3: PUMP DOWN 200' OF 1' PIPE. MIXED & PUMPED 100 SX (21 BBLS) OF PREMIUM CEMENT WITH 2% CACL2. MIXED CEMENT @ 15.8 PPG WITH YIELD OF 1.15 CF/SX. NO RETURNS. WOC 2 HR 0 MIN.

TOP JOB #4: PUMP DOWN 200' OF 1' PIPE. MIXED & PUMPED 50 SX (10.5 BBLS) OF PREMIUM CEMENT WITH 2% CACL2. MIXED CEMENT @ 15.8 PPG WITH YIELD OF 1.15 CF/SX. HOLE FILLED AND STOOD FULL.

PREPARED LOCATION FOR ROTARY RIG. WORT. WILL DROP FROM REPORT UNTIL FURTHER ACTIVITY.

CRAIG'S RIG #2 TOOK SURVEYS WHILE DRILLING HOLE @

1500' = 2.00 DEGREE, 2000' = 2.00 DEGREE, AND 2650' = 2.00 DEGREE.

BOBBY LAIN NOTIFIED BLM VIA EMAIL OF THE SURFACE CASING & CEMENT JOB ON 10/30/10 @ 18:30 PM.

BOBBY LAIN NOTIFIED CAROL DANIELS WITH UDOGM OF THE SURFACE CASING & CEMENT JOB VIA PHONE ON 10/30/10 @ 17:30 PM.

11-03-2010	Re	eported By	В	OBBY LAIN							
DailyCosts: I	Orilling	\$205,69	91	Com	pletion	\$0		Daily	Total	\$205,691	
Cum Costs: 1	Drilling	\$280,69	91	Com	pletion	\$0		Well	<b>Fotal</b>	\$280,691	
MD	2,710	TVD	2,710	Progress	0	Days	0	MW	0.0	Visc	0.0
Formation:		1	PBTD:	0.0		Perf:			PKR Dep	oth: 0.0	

Activity at Report Time: WORT

#### Start End Hrs Activity Description

06:00 06:00

24.0 MIRU CRAIG'S AIR RIG #2 ON 10/23/2010. DRILLED 12–1/4" HOLE TO 2700' GL (2719' KB). PUMP DRILLED FROM SURFACE TO TD WITH PARTIAL RETURNS. RAN 62 JTS (2691.33') OF 9–5/8", 36.0#, J–55, ST&C CASING WITH HALLIBURTON GUIDE SHOE AND FLOAT COLLAR. 15 CENTRALIZERS SPACED MIDDLE OF SHOE JOINT AND EVERY COLLAR TILL GONE. LANDED @ 2710.33' KB. RAN 200' OF 1" PIPE DOWN BACK SIDE. RDMO CRAIG'S AIR RIG #2.

MIRU HALLIBURTON CEMENTERS. HELD SAFETY MEETING. PRESSURE TESTED LINES AND CEMENT VALVE TO 3500 PSIG. PUMPED 10 BBLS FRESH WATER & 20 BBLS GELLED WATER FLUSH AHEAD OF CEMENT.

LEAD: MIXED AND PUMPED 250 SACKS (183 BBLS) OF PREMIUM LEAD CEMENT WITH 0.3% VARSET, 2% CAL–SEAL, AND 2% ECONOLITE. MIXED LEAD CEMENT @ 10.5 PPG WITH YIELD OF 4.1 CF/SX.

TAIL: MIXED AND PUMPED 300 SACKS (63 BBLS) OF PREMIUM CEMENT WITH 2% CACL2 MIXED TAIL CEMENT @ 15.6 PPG WITH YIELD OF 1.18 CF/SX.

DISPLACED CEMENT WITH 205 BBLS FRESH WATER. BUMPED PLUG WITH 840# @ 13:14 PM ON 11/1/10. FLOAT DID NOT HOLD. SHUT—IN CASING VALVE. BROKE CIRCULATION 5 BBLS INTO FRESH WATER FLUSH. NO CEMENT TO SURFACE. WOC 4 HR 30 MIN.

TOP JOB #1: PUMP DOWN 200' OF 1' PIPE. MIXED & PUMPED 75 SX (16 BBLS) OF PREMIUM CEMENT WITH 2% CACL2. MIXED CEMENT @ 15.8 PPG WITH YIELD OF 1.15 CF/SX. NO RETURNS. WOC 2 HR.

TOP JOB #2: PUMP DOWN 200' OF 1' PIPE. MIXED & PUMPED 100 SX (21 BBLS) OF PREMIUM CEMENT WITH 2% CACL2. MIXED CEMENT @ 15.8 PPG WITH YIELD OF 1.15 CF/SX. NO RETURNS. WOC 4 HR 15 MIN.

TOP JOB #3: PUMP DOWN 200' OF 1' PIPE. MIXED & PUMPED 100 SX (21 BBLS) OF PREMIUM CEMENT WITH 2% CACL2. MIXED CEMENT @ 15.8 PPG WITH YIELD OF 1.15 CF/SX. NO RETURNS. WOC 2 HR 0 MIN.

TOP JOB #4: PUMP DOWN 200' OF 1' PIPE. MIXED & PUMPED 50 SX (10.5 BBLS) OF PREMIUM CEMENT WITH 2% CACL2. MIXED CEMENT @ 15.8 PPG WITH YIELD OF 1.15 CF/SX. HOLE FILLED AND STOOD FULL.

PREPARED LOCATION FOR ROTARY RIG. WORT. WILL DROP FROM REPORT UNTIL FURTHER ACTIVITY.

CRAIG'S RIG #2 TOOK SURVEYS WHILE DRILLING HOLE @

1500' = 2.00 DEGREE, 2000' = 2.00 DEGREE, AND 2650' = 2.00 DEGREE.

BOBBY LAIN NOTIFIED BLM VIA EMAIL OF THE SURFACE CASING & CEMENT JOB ON 10/30/10 @ 18:30 PM.

BOBBY LAIN NOTIFIED CAROL DANIELS WITH UDOGM OF THE SURFACE CASING & CEMENT JOB VIA PHONE ON 10/30/10 @ 17:30 PM.

	STATE OF UTAH		FORM 9		
	DEPARTMENT OF NATURAL RESOURC DIVISION OF OIL, GAS, AND MII		<b>5.LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU64422		
SUND	RY NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:		
Do not use this form for propo bottom-hole depth, reenter plu DRILL form for such proposals	sals to drill new wells, significantly deepen ugged wells, or to drill horizontal laterals. U	existing wells below current Jse APPLICATION FOR PERMIT TO	7.UNIT or CA AGREEMENT NAME: BADLANDS		
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: HOSS 71-33		
2. NAME OF OPERATOR: EOG Resources, Inc.		9. API NUMBER: 43047397140000			
3. ADDRESS OF OPERATOR: 1060 East Highway 40 , Verna	9. FIELD and POOL or WILDCAT: NATURAL BUTTES				
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0709 FSL 0190 FWL		COUNTY: UINTAH			
QTR/QTR, SECTION, TOWNSHI Qtr/Qtr: SWSW Section: 33	IP, RANGE, MERIDIAN: 3 Township: 08.0S Range: 23.0E Meridian:	S	STATE: UTAH		
11. CHE	CK APPROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE, REPORT,	OR OTHER DATA		
TYPE OF SUBMISSION		TYPE OF ACTION			
	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR		
NOTICE OF INTENT Approximate date work will start:	✓ CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME		
10/28/2010	☐ CHANGE WELL STATUS	$\square$ commingle producing formations	☐ CONVERT WELL TYPE		
SUBSEQUENT REPORT	☐ DEEPEN	FRACTURE TREAT	☐ NEW CONSTRUCTION		
Date of Work Completion:	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK		
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION		
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON		
	☐ TUBING REPAIR	☐ VENT OR FLARE	WATER DISPOSAL		
☐ DRILLING REPORT	☐ WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION		
Report Date:	☐ WILDCAT WELL DETERMINATION	OTHER	OTHER:		
12. DESCRIBE PROPOSED OR CO	DMPLETED OPERATIONS. Clearly show all per	tinent details including dates, depths, v	volumes. etc.		
EOG Resources, Inc.	respectfully requests authoriz e attached revised Drilling Pla Drilling Procedure change	ation to change the Drilling n reflecting the purposed			
		n	ate: November 02, 2010		
			y:		
NAME (PLEASE PRINT) Nanette Lupcho	<b>PHONE NUMBER</b> 435 781-9157	<b>TITLE</b> Regulatory Assistant			
SIGNATURE N/A		<b>DATE</b> 10/28/2010			

# **HOSS 71-33**

# SW/SW, SEC. 33, T8S, R23E, S.L.B.&M.. UINTAH COUNTY, UTAH

#### **REVISED 10-27-2010**

# 1. & 2. ESTIMATED TOPS & ANTICIPATED OIL, GAS, & WATER ZONES:

FORMATION	TVD-RKB (ft)	Objective	Lithology	
Green River	1,816		Shale	
Birdsnest	2,111		Dolomite	
Mahogany Oil Shale Bed	2,741		Shale	
Wasatch	5,018	Primary	Sandstone	Gas
Chapita Wells	5,621	Primary	Sandstone	Gas
Buck Canyon	6,300	Primary	Sandstone	Gas
North Horn	6,909	Primary	Sandstone	Gas
KMV Price River	7,403	Primary	Sandstone	Gas
KMV Price River Middle	8,149	Primary	Sandstone	Gas
KMV Price River Lower	8,940	Primary	Sandstone	Gas
Sego	9,503		Sandstone	
TD	9,700			

Estimated TD: 9,700' or 200'± below TD

Anticipated BHP: 5,300 psi

- 1. Fresh Waters may exist in the upper, approximately 1,000 ft  $\pm$  of the Green River Formation, with top at about 1,800 ft  $\pm$ .
- 2. Cement isolation is installed to surface of the well isolating all zones by cement.

## 3. PRESSURE CONTROL EQUIPMENT:

Production Hole – 5000 psi BOP schematic diagrams attached.

## 4. CASING PROGRAM:

	<u>Hole</u>	<u>Length</u>	Size	<b>WEIGHT</b>	<b>Grade</b>	<b>Thread</b>	Rating	<b>Factor</b>	
CASING	<u>Size</u>						Collapse	<b>Burst</b>	<b>Tensile</b>
Conductor	20"	0 – 60'	14"	48.0#	H-40	STC	770 PSI	1730 PSI	322,000#
0 (	40.1/11	0 – 2500' KB±	0.5/11	00.0#		0.70	0000 001	0500 D.:	004.000#
Surface	12 1/4"	0 - 2300 KBI	9-5/8"	36.0#	J-55	STC	2020 PSI	3520 Psi	394,000#
<b>Production</b>	7-7/8"	Surface - TD	4-1/2"	11.6#	N-80	LTC	6350 PSI	7780 Psi	233,000#

Note:  $12-\frac{1}{4}$ " surface hole will be drilled to a total depth of 200'± below the base of the Green River lost circulation zone and cased w/9- $\frac{5}{8}$ " as shown to that depth. Drilled depth may be shallower or deeper than the 2500' shown above depending on the actual depth of the loss zone.

All casing will be new or inspected.



# HOSS 71-33 SW/SW, SEC. 33, T8S, R23E, S.L.B.&M.. UINTAH COUNTY, UTAH

# 5. Float Equipment:

## Surface Hole Procedure (0'- 2500'±)

Guide Shoe

Insert Float Collar (PDC drillable)

Centralizers: 1-5' above shoe, top of jts. #2 and #3 then every 5<sup>th</sup> joint to surface. (8-15 total)

# **Production Hole Procedure (2500'± - TD):**

Float shoe, 1 joint of casing, float collar and balance of casing to surface.  $4-\frac{1}{2}$ ", 11.6#, N-80 or equivalent marker collars or short casing joints to be placed at top of Price River and 400' above top of Wasatch. 1 turbulizer to be placed 5' above shoe on joint #1 and on the middle of joints #2 & #3. Conventional bow-spring centralizer on top of joint #4, then every  $3^{rd}$  joint to 400' above the top of primary objective. Thread lock float shoe, top and bottom of float collar, and top of  $2^{nd}$  joint.

# 6. MUD PROGRAM

#### Surface Hole Procedure (Surface - 2500'±):

Air/air mist or aerated water.

## Production Hole Procedure (2500'± - TD):

Anticipated mud weight 9.5 – 10.5 ppg depending on actual wellbore conditions encountered while drilling.

2500'±-TD A closed mud system will be utilized. A bentonite gelled water mud system will be used to control viscosity w/PHPA polymer used for supplemental viscosity and clay encapsulation/inhibition. Water loss will be maintained at <15cc's using white starch or PAC. Bactericides will be used as needed. Anticipated pH will range from 9.0-10.0. Mud weight will be adjusted as necessary for well control. Deflocculants/thinners will be used as necessary to maintain mud quality. LCM sweeps will be utilized as necessary to control lost circulation and mud loss. CO2 contamination, if encountered, will be treated with lime and gypsum.

# MOSS 71-33 SW/SW, SEC. 33, T8S, R23E, S.L.B.&M.. UINTAH COUNTY, UTAH

# 7. VARIANCE REQUESTS:

Reference: Onshore Oil and Gas Order No. 1

Onshore Oil and Gas Order No. 2 - Section E: Special Drilling Operations

- EOG Resources, Inc. requests a variance to regulations requiring a straight run blooie line to be 100' in length. (Where possible, a straight run blooie line will be used).
- EOG Resources, Inc. requests a variance to regulations requiring the blooie line to be 100' in length. To reduce location excavation, the blooie line will be approximately 75' in length.
- EOG Resources, Inc. requests a variance to regulations, during air drilling operations only, requiring dedusting equipment. Dust during air drilling operations is controlled by water mist.
- o EOG Resources, Inc. requests a variance to regulations, during air drilling operations only, requiring an automatic igniter or continuous pilot light on the blooie line. (Not required on aerated water system).
- o EOG Resources, Inc. requests a variance that compressors are located in the opposite direction from the blooie line a minimum of 100 feet from the well bore. (Air Compressors are rig mounted).

#### 8. EVALUATION PROGRAM:

**Logs:** Mud log from base of surface casing to TD.

Cased-hole Logs: Cased-hole logs will be run in lieu of open-hole logs consisting of the following:

**Cement Bond / Casing Collar Locator and Pulsed Neutron** 



# **HOSS 71-33**

# SW/SW, SEC. 33, T8S, R23E, S.L.B.&M.. UINTAH COUNTY, UTAH

## 9. CEMENT PROGRAM:

## Surface Hole Procedure (Surface - 2500'±):

Lead: 170 sks Class "G" cement with 16% Gel, 10 #/sx Gilsonite, 3% Salt, 2% CaCl<sub>2</sub>,

3 lb/sx GR3 ¼ #/sx Flocele mixed at 11 ppg, 3.82 ft<sup>3</sup>/sk. yield, 23 gps water.

Tail: 150 sks Class "G" cement with 2% CaCl<sub>2</sub>, ¼#/sk Flocele mixed at 15.6 ppg, 1.18 ft<sup>3</sup>/sk.,

5.2 gps water.

**Top Out:** As necessary with Class "G" cement with 2% CaCl<sub>2</sub>, ¼#/sk Flocele mixed at 15.6

ppg, 1.18 ft<sup>3</sup>/sk., 5.2 gps water.

Note: Cement volumes will be calculated to bring lead cement to surface and tail

cement to 500'above the casing shoe.

The above volumes are based on gauge hole with no excess.

#### **Production Hole Procedure (2500'± - TD)**

**Lead:** Lead volume to be calculated to bring cement from 400' above top of Wasatch Formation to 200'± above 9 5/8" surface casing shoe. For improved mud displacement, lead slurry weight will be a minimum of 0.5 ppg over mud weight utilized at well TD and vary from 11.0 – 13.0 ppg.

If lead slurry weight required is 11.0 ppg – 12.5 ppg, cement will be:

HES Highbond 75 (75/25 Poz/G) + 6% Bentonite (Extender) + 0.3% Versaset (Thixotropic Additive) + 2% Microbond (Expansion Additive)

Calculated sacks with corresponding mixed slurry weights, yields and water requirements for above cement will be as follows:

- 210 sx. if 11.0 ppg, 2.52 cfps, 14.96 gps fresh water
- 250 sx. if 11.5 ppg, 2.12 cfps, 11.98 gps fresh water
- 290 sx. if 12.0 ppg, 1.83 cfps, 9.82 gps fresh water
- 330 sx. if 12.5 ppg, 1.61 cfps, 8.17 gps fresh water

If lead slurry weight required is 13.0 ppg, cement will be:

325 sx. HES ExtendaCem (50/50 Poz/G) + 0.125 pps Pol-E-Flake (Lost Circulation Additive), mixed at 13.0 ppg, 1.63 cfps, 8.16 gps fresh water

**Tail:** Tail volume to be calculated to bring cement from TD to 400' above top of Wasatch Formation. Tail cement will be:

790 sx. HES ExtendaCem (50/50 Poz/G) + 0.125 pps Pol-E-Flake (Lost Circulation Additive), mixed at 13.5 ppg, 1.47 cfps, 6.98 gps fresh water

Note: The above number of sacks in all cases are calculated based on gauge hole. Final field cement volumes will be based on gauge hole plus 50% excess on the lead slurry and gauge hole plus 70% excess on the tail slurry.

# HOSS 71-33 SW/SW, SEC. 33, T8S, R23E, S.L.B.&M.. UINTAH COUNTY, UTAH

## 10. ABNORMAL CONDITIONS:

#### Surface Hole (Surface - 2500'±):

Lost circulation

#### Production Hole (2500'± - TD):

Sloughing shales, lost circulation and key seat development are possible in the Wasatch Formation.

#### 11. STANDARD REQUIRED EQUIPMENT:

- A. Choke Manifold
- B. Upper and Lower Kelly Cock
- C. Stabbing Valve
- D. Visual Mud Monitoring

## 12. HAZARDOUS CHEMICALS:

No chemicals subject to reporting under SARA title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

#### 13. Air Drilling Operations:

- 1. Main Air Compressors are 1250 CFM 350 psi with 2000 psi Boosters and are rig mounted.
- 2. Secondary Air Compressors are 1170 CFM 350 psi with 2000 psi Boosters and are rig mounted.
- 3. Minimum setting depth of conductor casing will be 60' GL or 10'± into competent formation, whichever is deeper, as determined by the EOG person in charge. Exceptions must be approved by an EOG drilling superintendent or manager.
- 4. The diameter of the diverter flow line will be a minimum of 10" to help reduce back pressure on the well bore during uncontrolled flow.
- 5. Rat and Mouse hole drilling will occur only after surface casing has been set and cemented.
- 6. EOG Resources, Inc. will use a properly maintained and lubricated stripper head.

(Attachment: BOP Schematic Diagram)

	STATE OF UTAH		FORM 9				
	DEPARTMENT OF NATURAL RESOUR DIVISION OF OIL, GAS, AND ME		5		ASE DESIGNATION AND SERIAL NUMBER: 64422		
	RY NOTICES AND REPORTS		_	6. IF	INDIAN, ALLOTTEE OR TRIBE NAME:		
	sals to drill new wells, significantly deepe ugged wells, or to drill horizontal laterals.				IT or CA AGREEMENT NAME: LANDS		
1. TYPE OF WELL Gas Well					8. WELL NAME and NUMBER: HOSS 71-33		
2. NAME OF OPERATOR: EOG Resources, Inc.		I NUMBER: 47397140000					
3. ADDRESS OF OPERATOR: 1060 East Highway 40 , Verna	<b>3. ADDRESS OF OPERATOR:</b> 1060 East Highway 40 , Vernal, UT, 84078  PHONE NUMBER: 435 781-9111 Ext						
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0709 FSL 0190 FWL		COUN UIN					
QTR/QTR, SECTION, TOWNSHI Qtr/Qtr: SWSW Section: 33	rp, Range, Meridian: 3 Township: 08.0S Range: 23.0E Meridian	n: S		STAT UTA			
CHE	CK APPROPRIATE BOXES TO INDICA	ATE NA	ATURE OF NOTICE, REPOR	Γ, OR O	THER DATA		
TYPE OF SUBMISSION			TYPE OF ACTION				
_	ACIDIZE		ALTER CASING	[	CASING REPAIR		
NOTICE OF INTENT Approximate date work will start:	☐ CHANGE TO PREVIOUS PLANS ☐ CHANGE WELL STATUS		CHANGE TUBING  COMMINGLE PRODUCING FORMATION:		CHANGE WELL NAME  CONVERT WELL TYPE		
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN		RACTURE TREAT	· [	□ NEW CONSTRUCTION		
Date of work completion:	OPERATOR CHANGE	□ <b>F</b>	PLUG AND ABANDON	[	PLUG BACK		
SPUD REPORT	PRODUCTION START OR RESUME	□ F	RECLAMATION OF WELL SITE	[	RECOMPLETE DIFFERENT FORMATION		
Date of Spud:	REPERFORATE CURRENT FORMATION	□ s	SIDETRACK TO REPAIR WELL	[	TEMPORARY ABANDON		
	☐ TUBING REPAIR		/ENT OR FLARE	[	WATER DISPOSAL		
✓ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	s	SI TA STATUS EXTENSION	[	APD EXTENSION		
11/3/2010	☐ WILDCAT WELL DETERMINATION		OTHER	0	THER:		
l .	pmpleted operations. Clearly show all pred well chronology report for all activity up to 11/3/1	the 10.	referenced well show	ing Acce Utah Oil, Ga	pted by the Division of as and Mining ECORD ONLY		
Michelle Robles	307 276-4842		Regulatory Assistant				
SIGNATURE N/A			<b>DATE</b> 11/3/2010				

# WELL CHRONOLOGY REPORT

Report Generated On: 11-03-2010

Well Name	HOSS 071-33	Well Type	DEVG	Division	DENVER			
Field	PONDEROSA	API#	43-047-39714	Well Class	DRIL			
County, State	UINTAH, UT	Spud Date		Class Date				
Tax Credit	N	TVD / MD	9,700/ 9,700	Property #	061540			
Water Depth	0	Last CSG	9.625	Shoe TVD / MD	2,710/ 2,710			
KB / GL Elev	4,988/ 4,972							
Location	Section 33, T8S, R23E, SWS	W, 709 FSL & 190 FW	TL					

<b>Event No</b>	1.0	Desc	ription DR	RILL & COMPLET	E			
Operator	EOG RESOUR	CES, INC WI %	<b>6</b> 100	0.0	NRI %		67.0	
AFE No	304722	AFI	E Total	1,641,900	DHC / C	WC	660,500/ 981	,400
Rig Contr	TRUE	Rig Name	TRUE #34	Start Date	12-09-2008	Release 1	Date	
12-09-2008	Reported By	SHEILA	MALLOY					
DailyCosts: D	rilling \$0		Completion	\$0	Daily	Total	\$0	
Cum Costs: D	rilling \$0		Completion	\$0	Well	Total	\$0	
MD	0 <b>TVD</b>	0 Prog	gress 0	Days	0 <b>MW</b>	0.0	Visc	0.0
Formation:		<b>PBTD</b> : 0.0		Perf:		PKR De	<b>pth:</b> 0.0	

Activity at Report Time: LOCATION DATA

Start End Hrs Activity Description

06:00 06:00 24.0 LOCATION DATA (PROG 10/12/10)

709' FSL & 190' FWL (SW/SW) SECTION 33, T8S, R23E UINTAH COUNTY, UTAH

LAT 40.073972, LONG 109.340178 (NAD 27) LAT 40.073936, LONG 109.340858 (NAD 83)

TRUE #34

OBJECTIVE: 9700' TD, MESAVERDE

DW/GAS

PONDEROSA PROSPECT DD&A: CHAPITA DEEP NATURAL BUTTES FIELD

LEASE: U-64422

ELEVATION: 4973.1' NAT GL, 4972.4' PREP GL (DUE TO ROUNDING THE PREP GL WILL BE 4972') 4991' KB

(19')

EOG WI 100%, NRI 67%

10–14–2010 Reported By TERRY CSERE

DailyCosts: Drilling	\$75,000	)	Com	pletion	\$0		Dail	y Total	\$75,000	
<b>Cum Costs: Drilling</b>	\$75,000	)	Com	pletion	\$0		Well	Total	\$75,000	
<b>MD</b> 0	TVD	0	Progress	0	Days	0	MW	0.0	Visc	0.0
Formation :	I	<b>PBTD</b> : 0.0	0		Perf:			PKR De	<b>pth:</b> 0.0	
Activity at Report T	ime: BUILD LC	CATION								
Start End	Hrs Activ	vity Descr	ription							
06:00 06:00	24.0 BEG	AN CONST	TRUCTION OF	LOCATIO	ON TODAY, 10	/14/10.				
10-15-2010 F	Reported By	TE	RRY CSERE							
DailyCosts: Drilling			Com	pletion	\$0		Dail	y Total	\$0	
<b>Cum Costs: Drilling</b>	\$75,000	)	Com	pletion	\$0		Well	Total	\$75,000	
<b>MD</b> 0	TVD	0	Progress	0	Days	0	MW	0.0	Visc	0.0
Formation:	I	<b>PBTD</b> : 0.0	0		Perf:			PKR De	<b>pth:</b> 0.0	
Activity at Report T	ime: BUILD LC	CATION								
Start End	Hrs Activ	vity Descr	ription							
06:00 06:00	24.0 LOC	ATION 109	% COMPLETE.							
10-18-2010 F	Reported By	TE	RRY CSERE							
DailyCosts: Drilling	\$0		Com	pletion	\$0		Dail	y Total	\$0	
Cum Costs: Drilling	\$75,000	)	Com	pletion	\$0		Well	Total	\$75,000	
Cum Costs: Dimme					D	0	MW	0.0	Visc	0.0
_	TVD	0	Progress	0	Days	U	11211			
_		0 <b>PBTD:</b> 0.0	_	0	Days Perf :	Ü	212 77	PKR De	<b>pth:</b> 0.0	
MD 0 Formation:	I	<b>PBTD</b> : 0.0	_	0	=	O	2.2,,	PKR De	<b>pth:</b> 0.0	
MD 0  Formation: Activity at Report T	Iime: BUILD LO	<b>PBTD</b> : 0.0	0	0	=	Ü	21211	PKR De	<b>pth:</b> 0.0	
MD 0  Formation: Activity at Report T	ime: BUILD LC Hrs Activ 24.0 LOCA SET - NOT	PBTD: 0.0 DCATION VITY Descr ATION 509 14/-60' OF 1 UFIED BY 1	0	CRAIG'S OR. CEM AGE AND	Perf:  ROUSTABOU ENT TO SURF	JT SERVIC FACE WITH	CE SPUDS A H READY M	20" HOLE OI	N 10/20/2010 @ DANIELS W/UI	OGM WAS
MD 0 Formation: Activity at Report T Start End 06:00 06:00	ime: BUILD LC Hrs Activ 24.0 LOCA SET - NOT	PBTD: 0.0 OCATION vity Descr ATION 509 +/-60' OF 1 IFIED BY I	oription % COMPLETE. 14" CONDUCT PHONE MESS/	CRAIG'S OR. CEM AGE AND	Perf:  ROUSTABOU ENT TO SURF	JT SERVIC FACE WITH	CE SPUDS A H READY M	20" HOLE OI	N 10/20/2010 @ DANIELS W/UI	OGM WAS
MD 0  Formation: Activity at Report T  Start End 06:00 06:00	ime: BUILD LC Hrs Activ 24.0 LOC. SET - NOTE NOTE	PBTD: 0.0 OCATION vity Descr ATION 509 +/-60' OF 1 IFIED BY I	ription 6 COMPLETE. 14" CONDUCT PHONE MESSA NS SENT ON 10 ERRY CSERE	CRAIG'S OR. CEM AGE AND )/18/2010.	Perf:  ROUSTABOU ENT TO SURF	JT SERVIC FACE WITH	CE SPUDS A H READY M Y EMAIL O	20" HOLE OI IX. CAROL E F SPUD ON 1	N 10/20/2010 @ DANIELS W/UI	OGM WAS
MD 0  Formation: Activity at Report T  Start End 06:00 06:00	Fime: BUILD LC Hrs Activ 24.0 LOC. SET - NOTE NOTE Reported By \$0	PBTD: 0.0 CCATION wity Descr ATION 50% +/-60' OF: IFIED BY I IFICATION	ription % COMPLETE. 14" CONDUCT PHONE MESSA NS SENT ON 10 RRY CSERE Com	CRAIG'S OR. CEM AGE AND	Perf:  ROUSTABOU ENT TO SURF BLM WAS NO	JT SERVIC FACE WITH	CE SPUDS A H READY M Y EMAIL O Dail	20" HOLE OI	N 10/20/2010 @ DANIELS W/UI 0/20/10 @ 09:0	OGM WAS
MD 0  Formation: Activity at Report T  Start End 06:00 06:00  10–19–2010 F  DailyCosts: Drilling Cum Costs: Drilling	Fime: BUILD LC Hrs Activ 24.0 LOC. SET - NOTE NOTE Reported By \$0	PBTD: 0.0 CCATION wity Descr ATION 50% +/-60' OF: IFIED BY I IFICATION	ription % COMPLETE. 14" CONDUCT PHONE MESSA NS SENT ON 10 RRY CSERE Com Com	CRAIG'S OR. CEM AGE AND 0/18/2010. apletion	Perf:  ROUSTABOU ENT TO SURF BLM WAS NO	JT SERVIC FACE WITH	CE SPUDS A H READY M Y EMAIL O Dail Well	20" HOLE OI IX. CAROL E F SPUD ON 1 y <b>Total</b>	N 10/20/2010 @ DANIELS W/UI 0/20/10 @ 09:0 \$0	OGM WAS
MD 0  Formation: Activity at Report T  Start End 06:00 06:00  10-19-2010 F  DailyCosts: Drilling Cum Costs: Drilling	Hrs Active 24.0 LOC. SET NOTE NOTE NOTE SEPORTED BY \$0 \$75,000 TVD	PBTD: 0.0 PCATION VITY Description 509 +/-60' OF 1 IFIED BY I IFICATION TE	ription % COMPLETE. 14" CONDUCT PHONE MESSA NS SENT ON 10 ERRY CSERE Com Com Progress	CRAIG'S OR. CEM AGE AND 0/18/2010. apletion	Perf:  ROUSTABOU ENT TO SURF BLM WAS NO	UT SERVIC FACE WITH OTIFIED B	CE SPUDS A H READY M Y EMAIL O Dail	20" HOLE OI IX. CAROL E F SPUD ON 1 y Total	N 10/20/2010 @ DANIELS W/UI 0/20/10 @ 09:0 \$0 \$75,000 Visc	OOGM WAS 0 AM.
MD 0  Formation: Activity at Report T  Start End 06:00 06:00  10-19-2010 F  DailyCosts: Drilling Cum Costs: Drilling MD 0  Formation:	Hrs Active 24.0 LOCA SET NOTE NOTE SEPORTED BY \$0 \$75,000 TVD	PBTD: 0.0 PCATION  vity Description 509 +/-60' OF 1 IFICATION  TE  0 PBTD: 0.0	ription % COMPLETE. 14" CONDUCT PHONE MESSA NS SENT ON 10 ERRY CSERE Com Com Progress	CRAIG'S OR. CEM AGE AND 0/18/2010. apletion	Perf:  ROUSTABOUENT TO SURF BLM WAS NO \$0  \$0  Days	UT SERVIC FACE WITH OTIFIED B	CE SPUDS A H READY M Y EMAIL O Dail Well	20" HOLE OF IX. CAROL EF SPUD ON 1  y Total  1 Total	N 10/20/2010 @ DANIELS W/UI 0/20/10 @ 09:0 \$0 \$75,000 Visc	OOGM WAS
MD 0  Formation: Activity at Report T  Start End 06:00 06:00  10-19-2010 F  DailyCosts: Drilling Cum Costs: Drilling MD 0  Formation: Activity at Report T	ime: BUILD LC  Hrs Activ 24.0 LOC. SET- NOTE NOTE Reported By \$0 \$75,000 TVD Ime: BUILD LC	PBTD: 0.0 CATION  vity Description ATION 509 4/-60' OF 1 IFIED BY I IFICATION  TE  0 0 PBTD: 0.0 CATION	ription % COMPLETE. 14" CONDUCT PHONE MESSA NS SENT ON 10 ERRY CSERE  Com Com Progress	CRAIG'S OR. CEM AGE AND 0/18/2010. apletion	Perf:  ROUSTABOUENT TO SURF BLM WAS NO \$0  \$0  Days	UT SERVIC FACE WITH OTIFIED B	CE SPUDS A H READY M Y EMAIL O Dail Well	20" HOLE OF IX. CAROL EF SPUD ON 1  y Total  1 Total	N 10/20/2010 @ DANIELS W/UI 0/20/10 @ 09:0 \$0 \$75,000 Visc	OOGM WAS
MD 0  Formation: Activity at Report T  Start End 06:00 06:00  10-19-2010 F  DailyCosts: Drilling Cum Costs: Drilling MD 0  Formation: Activity at Report T	Hrs Activates BUILD LC  Hrs Activates Activates Activates Build LC  Hrs Activates Build LC  Hrs Activates Build LC  Hrs Activates Build LC  Hrs Activates Build LC	PBTD: 0.0 PCATION  vity Description  ATION 509 +/-60' OF 1 IFIED BY IFIED BY IFIED BY IFIED BY IFIED  0 PBTD: 0.0 PCATION  vity Description	ription % COMPLETE. 14" CONDUCT PHONE MESSA NS SENT ON 10 ERRY CSERE  Com Com Progress	CRAIG'S OR. CEM AGE AND 0/18/2010.  expletion pletion 0	Perf:  ROUSTABOUENT TO SURF BLM WAS NO  \$0 \$0 Days Perf:	UT SERVIC FACE WITH DTIFIED B	CE SPUDS A H READY M Y EMAIL O Dail Well	20" HOLE OF IX. CAROL EF SPUD ON 1  y Total  1 Total	N 10/20/2010 @ DANIELS W/UI 0/20/10 @ 09:0 \$0 \$75,000 Visc	OOGM WAS
MD 0 Formation: Activity at Report T Start End 06:00 06:00  10-19-2010 F DailyCosts: Drilling Cum Costs: Drilling MD 0 Formation: Activity at Report T Start End 06:00 06:00	ime: BUILD LC  Hrs Activ 24.0 LOC. SET-NOTE NOTE Reported By \$0 \$75,000 TVD Ime: BUILD LC Hrs Activ 24.0 LOC.	PBTD: 0.0 CATION vity Description ATION 509 4/-60' OF 1 IFIED BY I IFICATION TE  O CATION vity Description vity Description CO	ription % COMPLETE. 14" CONDUCT PHONE MESSA NS SENT ON 10 RRY CSERE Com Com Progress 0	CRAIG'S OR. CEM AGE AND 0/18/2010.  expletion pletion 0	Perf:  ROUSTABOUENT TO SURF BLM WAS NO  \$0 \$0 Days Perf:	UT SERVIC FACE WITH DTIFIED B	CE SPUDS A H READY M Y EMAIL O Dail Well	20" HOLE OF IX. CAROL EF SPUD ON 1  y Total  1 Total	N 10/20/2010 @ DANIELS W/UI 0/20/10 @ 09:0 \$0 \$75,000 Visc	OOGM WAS
MD 0 Formation: Activity at Report T Start End 06:00 06:00  10-19-2010 F DailyCosts: Drilling MD 0 Formation: Activity at Report T Start End 06:00 06:00  10-20-2010 F	Hrs Active 24.0 LOC.  SET NOTE NOTE NOTE NOTE NOTE NOTE NOTE NO	PBTD: 0.0 CATION vity Description ATION 509 4/-60' OF 1 IFIED BY I IFICATION TE  O CATION vity Description vity Description CO	ription % COMPLETE. 14" CONDUCT PHONE MESSA NS SENT ON 10 RRRY CSERE  Com Progress 0 ription MPLETE. STAL	CRAIG'S OR. CEM AGE AND 0/18/2010.  apletion 0	Perf:  ROUSTABOUENT TO SURFELM WAS NOT SURFELD	UT SERVIC FACE WITH DTIFIED B	CE SPUDS A H READY M Y EMAIL O Dail Well MW	20" HOLE OI IX. CAROL I F SPUD ON 1  y Total  0.0  PKR De	N 10/20/2010 @ DANIELS W/UI 0/20/10 @ 09:0  \$0 \$75,000  Visc pth: 0.0	OOGM WAS 0 AM.
MD 0 Formation: Activity at Report T Start End 06:00 06:00  10-19-2010 F DailyCosts: Drilling MD 0 Formation: Activity at Report T Start End 06:00 06:00  10-20-2010 F	ime: BUILD LO  Hrs Activ 24.0 LOC. SET-NOTE NOTE Seported By \$0 \$75,000  TVD  Ime: BUILD LOC. Hrs Activ 24.0 LOC. Seported By \$0 \$0 \$75,000	PBTD: 0.0 CATION vity Description 509 4/-60' OF 1 FIED BY I FICATION TE  O CATION TE  O CATION TE  O CATION TE  ATION CO TE	ription % COMPLETE. 14" CONDUCT PHONE MESSA NS SENT ON 10 RRY CSERE  Com Com Progress 0 ription MPLETE. STAL RRY CSERE  Com	CRAIG'S OR. CEM AGE AND 0/18/2010.  expletion pletion 0	Perf:  ROUSTABOUENT TO SURF BLM WAS NO  \$0 \$0 Days Perf:	UT SERVIC FACE WITH DTIFIED B	CE SPUDS A H READY M Y EMAIL O Dail Well MW	20" HOLE OF IX. CAROL EF SPUD ON 1  y Total  1 Total	N 10/20/2010 @ DANIELS W/UI 0/20/10 @ 09:0 \$0 \$75,000 Visc	OOGM WAS 0 AM.
MD 0 Formation: Activity at Report T Start End 06:00 06:00  10–19–2010 F DailyCosts: Drilling MD 0 Formation: Activity at Report T Start End 06:00 06:00  10–20–2010 F DailyCosts: Drilling	ime: BUILD LO  Hrs Activ 24.0 LOC. SET-NOTE NOTE Seported By \$0 \$75,000  TVD  Ime: BUILD LOC. Hrs Activ 24.0 LOC. Seported By \$0 \$0 \$75,000	PBTD: 0.0 CATION vity Description 509 4/-60' OF 1 FIED BY I FICATION TE  O CATION TE  O CATION TE  O CATION TE  ATION CO TE	ription % COMPLETE. 14" CONDUCT PHONE MESSA NS SENT ON 10 ERRY CSERE  Com Progress 0 ription MPLETE. STALE ERRY CSERE  Com Com Com Com Com Com Com Com Com	CRAIG'S OR. CEM AGE AND 0/18/2010.  upletion 0  RTING CI upletion upletion	Perf:  ROUSTABOUENT TO SURF BLM WAS NO  \$0 \$0 Days Perf:	UT SERVIC FACE WITH DTIFIED B	CE SPUDS A H READY M Y EMAIL O Dail Well MW	20" HOLE OI IX. CAROL I F SPUD ON 1 y Total 0.0 PKR De	\$0 \$75,000 \$0 \$75,000 \$0 \$75,000	OOGM WAS
MD 0 Formation: Activity at Report T Start End 06:00 06:00  10-19-2010 F DailyCosts: Drilling MD 0 Formation: Activity at Report T Start End 06:00 06:00  10-20-2010 F DailyCosts: Drilling Cum Costs: Drilling	## Active 24.0 LOC. SET - NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE	PBTD: 0.0 PCATION  vity Description  ATION 509 +/-60' OF: IFIED BY I IFICATION  TE  O PBTD: 0.0 PCATION  vity Description  ATION CO  TE	ription % COMPLETE. 14" CONDUCT PHONE MESSANS SENT ON 10 RRY CSERE Com Com Progress 0 ription MPLETE. STAL RRY CSERE Com Com Progress	CRAIG'S OR. CEM AGE AND 0/18/2010.  upletion 0  RTING CI	Perf:  ROUSTABOUENT TO SURF BLM WAS NO  \$0 \$0 Days Perf:  COSED LOOP.  \$0 \$0 Days	UT SERVIC FACE WITH OTIFIED B	CE SPUDS A H READY M Y EMAIL O Dail Well MW	20" HOLE OI IX. CAROL E F SPUD ON 1  y Total  0.0  PKR De y Total  1 Total  0.0	\$0 \$75,000  \$0 \$75,000  \$0 \$75,000  \$0 \$75,000	OOGM WAS 0 AM.
MD 0 Formation: Activity at Report T Start End 06:00 06:00  10–19–2010 F DailyCosts: Drilling MD 0 Formation: Activity at Report T Start End 06:00 06:00  10–20–2010 F DailyCosts: Drilling	ime: BUILD LC  Hrs Active 24.0 LOC. SET-NOTE NOTE NOTE SEPORTED By \$0 \$75,000  TVD  Hrs Active 24.0 LOC. SEPORTED By \$0 \$0 \$75,000  TVD  TVD  TVD  TVD  TVD  TVD  TVD	PBTD: 0.0 PCATION  VITY Description  ATION 509 14-60' OF 14 IFICATION  TE  PBTD: 0.0 PCATION  VITY DESCRIPTION  ATION CO  TE  60 PBTD: 0.0	ription % COMPLETE. 14" CONDUCT PHONE MESSANS SENT ON 10 RRY CSERE Com Com Progress 0 ription MPLETE. STAL RRY CSERE Com Com Progress	CRAIG'S OR. CEM AGE AND 0/18/2010.  upletion 0  RTING CI upletion upletion	Perf:  ROUSTABOUENT TO SURF BLM WAS NO  \$0 \$0 Days Perf:	UT SERVIC FACE WITH OTIFIED B	CE SPUDS A H READY M Y EMAIL O Dail Well MW	20" HOLE OI IX. CAROL E F SPUD ON 1  y Total  0.0  PKR De y Total	\$0 \$75,000  \$0 \$75,000  \$0 \$75,000  \$0 \$75,000	OOGM WAS

06:00 06:00 24.0 CLOSED LOOP, 30% COMPLETE. - CRAIG'S ROUSTABOUT SPUD A 20" HOLE ON 10/20/10 @ 09:00 HRS, SET 60' OF 14" CONDUCTOR. CEMENT TO SURFACE WITH READY MIX. CAROL DANIELS W/UDOGM WAS NOTIFIED BY PHONE MESSAGE AND BLM WAS NOTIFIED BY EMAIL OF SPUD ON 10/18/10 @ 1:46 PM. TERRY CSERE 10-21-2010 Reported By \$0 \$0 DailyCosts: Drilling Completion \$0 **Daily Total Cum Costs: Drilling** \$75,000 Completion \$0 **Well Total** \$75,000 60 **TVD** 60 0 MW0.0 MD **Progress** Days Visc Formation: **PBTD**: 0.0 Perf: PKR Depth: 0.0 Activity at Report Time: BUILD LOCATION Start End Hrs **Activity Description** 24.0 CLOSED LOOP 80% COMPLETE. 06:00 06:00 10-22-2010 Reported By TERRY CSERE DailyCosts: Drilling \$0 **Daily Total** \$0 Completion \$0 **Cum Costs: Drilling** \$75,000 Completion \$0 **Well Total** \$75,000 60 0 0.0 0.0 **TVD** 60 0 MW MD **Progress** Days Visc **PBTD**: 0.0 PKR Depth: 0.0 Formation: Perf: **Activity at Report Time: WORT Activity Description** Start End Hrs 06:00 06:00 24.0 LOCATION COMPLETE, WORT. 11-02-2010 BOBBY LAIN Reported By DailyCosts: Drilling \$205,691 Completion \$0 **Daily Total** \$205,691 **Cum Costs: Drilling** \$280,691 Completion \$0 **Well Total** \$280,691 2,710 **TVD** 2,710 MW0.0 0.0 MD **Progress** Visc Days Formation: **PBTD**: 0.0 Perf: PKR Depth: 0.0 Activity at Report Time: WORT **Activity Description** Start End Hrs 06:00 06:00 24.0 MIRU CRAIG'S AIR RIG #2 ON 10/23/2010. DRILLED 12-1/4" HOLE TO 2700' GL (2719' KB). PUMP DRILLED FROM SURFACE TO TD WITH PARTIAL RETURNS. RAN 62 JTS (2691.33') OF 9-5/8", 36.0#, J-55, ST&C CASING WITH HALLIBURTON GUIDE SHOE AND FLOAT COLLAR. 15 CENTRALIZERS SPACED MIDDLE OF SHOE JOINT AND EVERY COLLAR TILL GONE. LANDED @ 2710.33' KB, RAN 200' OF 1" PIPE DOWN BACK SIDE. RDMO CRAIG'S AIR RIG #2. MIRU HALLIBURTON CEMENTERS. HELD SAFETY MEETING, PRESSURE TESTED LINES AND CEMENT VALVE TO 3500 PSIG. PUMPED 10 BBLS FRESH WATER & 20 BBLS GELLED WATER FLUSH AHEAD OF CEMENT. LEAD: MIXED AND PUMPED 250 SACKS (183 BBLS) OF PREMIUM LEAD CEMENT WITH 0.3% VARSET, 2% CAL-SEAL, AND 2% ECONOLITE. MIXED LEAD CEMENT @ 10.5 PPG WITH YIELD OF 4.1 CF/SX. TAIL: MIXED AND PUMPED 300 SACKS (63 BBLS) OF PREMIUM CEMENT WITH 2% CACL2 MIXED TAIL CEMENT @ 15.6 PPG WITH YIELD OF 1.18 CF/SX. DISPLACED CEMENT WITH 205 BBLS FRESH WATER. BUMPED PLUG WITH 840# @ 13:14 PM ON 11/1/10. FLOAT DID NOT HOLD. SHUT-IN CASING VALVE. BROKE CIRCULATION 5 BBLS INTO FRESH WATER FLUSH. NO CEMENT TO SURFACE. WOC 4 HR 30 MIN.

TOP JOB #1: PUMP DOWN 200' OF 1' PIPE. MIXED & PUMPED 75 SX (16 BBLS) OF PREMIUM CEMENT WITH 2% CACL2. MIXED CEMENT @ 15.8 PPG WITH YIELD OF 1.15 CF/SX. NO RETURNS. WOC 2 HR.

TOP JOB #2: PUMP DOWN 200' OF 1' PIPE. MIXED & PUMPED 100 SX (21 BBLS) OF PREMIUM CEMENT WITH 2% CACL2. MIXED CEMENT @ 15.8 PPG WITH YIELD OF 1.15 CF/SX. NO RETURNS. WOC 4 HR 15 MIN.

TOP JOB #3: PUMP DOWN 200' OF 1' PIPE. MIXED & PUMPED 100 SX (21 BBLS) OF PREMIUM CEMENT WITH 2% CACL2. MIXED CEMENT @ 15.8 PPG WITH YIELD OF 1.15 CF/SX. NO RETURNS. WOC 2 HR 0 MIN.

TOP JOB #4: PUMP DOWN 200' OF 1' PIPE. MIXED & PUMPED 50 SX (10.5 BBLS) OF PREMIUM CEMENT WITH 2% CACL2. MIXED CEMENT @ 15.8 PPG WITH YIELD OF 1.15 CF/SX. HOLE FILLED AND STOOD FULL.

PREPARED LOCATION FOR ROTARY RIG. WORT. WILL DROP FROM REPORT UNTIL FURTHER ACTIVITY.

CRAIG'S RIG #2 TOOK SURVEYS WHILE DRILLING HOLE @

1500' = 2.00 DEGREE, 2000' = 2.00 DEGREE, AND 2650' = 2.00 DEGREE.

BOBBY LAIN NOTIFIED BLM VIA EMAIL OF THE SURFACE CASING & CEMENT JOB ON 10/30/10 @ 18:30 PM.

BOBBY LAIN NOTIFIED CAROL DANIELS WITH UDOGM OF THE SURFACE CASING & CEMENT JOB VIA PHONE ON 10/30/10 @ 17:30 PM.

11-03-2010	Re	eported By	В	OBBY LAIN							
DailyCosts: I	Orilling	\$205,69	91	Com	pletion	\$0		Daily	Total	\$205,691	
Cum Costs: 1	Drilling	\$280,69	91	Com	pletion	\$0		Well	<b>Fotal</b>	\$280,691	
MD	2,710	TVD	2,710	Progress	0	Days	0	MW	0.0	Visc	0.0
Formation:		1	PBTD:	0.0		Perf:			PKR Dep	oth: 0.0	

Activity at Report Time: WORT

#### Start End Hrs Activity Description

06:00 06:00

24.0 MIRU CRAIG'S AIR RIG #2 ON 10/23/2010. DRILLED 12–1/4" HOLE TO 2700' GL (2719' KB). PUMP DRILLED FROM SURFACE TO TD WITH PARTIAL RETURNS. RAN 62 JTS (2691.33') OF 9–5/8", 36.0#, J–55, ST&C CASING WITH HALLIBURTON GUIDE SHOE AND FLOAT COLLAR. 15 CENTRALIZERS SPACED MIDDLE OF SHOE JOINT AND EVERY COLLAR TILL GONE. LANDED @ 2710.33' KB. RAN 200' OF 1" PIPE DOWN BACK SIDE. RDMO CRAIG'S AIR RIG #2.

MIRU HALLIBURTON CEMENTERS. HELD SAFETY MEETING. PRESSURE TESTED LINES AND CEMENT VALVE TO 3500 PSIG. PUMPED 10 BBLS FRESH WATER & 20 BBLS GELLED WATER FLUSH AHEAD OF CEMENT.

LEAD: MIXED AND PUMPED 250 SACKS (183 BBLS) OF PREMIUM LEAD CEMENT WITH 0.3% VARSET, 2% CAL–SEAL, AND 2% ECONOLITE. MIXED LEAD CEMENT @ 10.5 PPG WITH YIELD OF 4.1 CF/SX.

TAIL: MIXED AND PUMPED 300 SACKS (63 BBLS) OF PREMIUM CEMENT WITH 2% CACL2 MIXED TAIL CEMENT @ 15.6 PPG WITH YIELD OF 1.18 CF/SX.

DISPLACED CEMENT WITH 205 BBLS FRESH WATER. BUMPED PLUG WITH 840# @ 13:14 PM ON 11/1/10. FLOAT DID NOT HOLD. SHUT—IN CASING VALVE. BROKE CIRCULATION 5 BBLS INTO FRESH WATER FLUSH. NO CEMENT TO SURFACE. WOC 4 HR 30 MIN.

TOP JOB #1: PUMP DOWN 200' OF 1' PIPE. MIXED & PUMPED 75 SX (16 BBLS) OF PREMIUM CEMENT WITH 2% CACL2. MIXED CEMENT @ 15.8 PPG WITH YIELD OF 1.15 CF/SX. NO RETURNS. WOC 2 HR.

TOP JOB #2: PUMP DOWN 200' OF 1' PIPE. MIXED & PUMPED 100 SX (21 BBLS) OF PREMIUM CEMENT WITH 2% CACL2. MIXED CEMENT @ 15.8 PPG WITH YIELD OF 1.15 CF/SX. NO RETURNS. WOC 4 HR 15 MIN.

TOP JOB #3: PUMP DOWN 200' OF 1' PIPE. MIXED & PUMPED 100 SX (21 BBLS) OF PREMIUM CEMENT WITH 2% CACL2. MIXED CEMENT @ 15.8 PPG WITH YIELD OF 1.15 CF/SX. NO RETURNS. WOC 2 HR 0 MIN.

TOP JOB #4: PUMP DOWN 200' OF 1' PIPE. MIXED & PUMPED 50 SX (10.5 BBLS) OF PREMIUM CEMENT WITH 2% CACL2. MIXED CEMENT @ 15.8 PPG WITH YIELD OF 1.15 CF/SX. HOLE FILLED AND STOOD FULL.

PREPARED LOCATION FOR ROTARY RIG. WORT. WILL DROP FROM REPORT UNTIL FURTHER ACTIVITY.

CRAIG'S RIG #2 TOOK SURVEYS WHILE DRILLING HOLE @

1500' = 2.00 DEGREE, 2000' = 2.00 DEGREE, AND 2650' = 2.00 DEGREE.

BOBBY LAIN NOTIFIED BLM VIA EMAIL OF THE SURFACE CASING & CEMENT JOB ON 10/30/10 @ 18:30 PM.

BOBBY LAIN NOTIFIED CAROL DANIELS WITH UDOGM OF THE SURFACE CASING & CEMENT JOB VIA PHONE ON 10/30/10 @ 17:30 PM.

STATE OF UTAH	FORM 9
DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU64422
SUNDRY NOTICES AND REPORTS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIDRILL form for such proposals.	7.UNIT or CA AGREEMENT NAME: BADLANDS
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: HOSS 71-33
2. NAME OF OPERATOR: EOG Resources, Inc.	<b>9. API NUMBER:</b> 43047397140000
3. ADDRESS OF OPERATOR: PHONE NUMBER: 1060 East Highway 40 , Vernal, UT, 84078 435 781-9111 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0709 FSL 0190 FWL	COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 33 Township: 08.0S Range: 23.0E Meridian: S	STATE: UTAH
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, R	EPORT, OR OTHER DATA
TYPE OF SUBMISSION TYPE OF ACTIO	N
☐ ACIDIZE ☐ ALTER CASING	☐ CASING REPAIR
NOTICE OF INTENT CHANGE TO PREVIOUS PLANS CHANGE TUBING Approximate date work will start:	CHANGE WELL NAME
Date of Work Completion: DEEPEN FRACTURE TREAT  OPERATOR CHANGE PLUG AND ABANDON	<ul> <li>□ NEW CONSTRUCTION</li> <li>□ PLUG BACK</li> </ul>
DEPONICTION START OF REGIME DECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
SPUD REPORT Date of Spud:  REPERFORATE CURRENT FORMATION SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
☐ TUBING REPAIR ☐ VENT OR FLARE	☐ WATER DISPOSAL
✓ DRILLING REPORT Report Date:  WATER SHUTOFF  SI TA STATUS EXTENSION	APD EXTENSION
12/3/2010	OTHER:
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates,	depths, volumes, etc.
Waiting on completion operations. Please see the attached well chron	· ·
report for the referenced well showing activity up to 11/17/2010	<ul> <li>Accepted by the Utah Division of</li> </ul>
	Otan Division of Oil, Gas and Mining
	FOR RECORD ONLY
•	OR RECO/bulz/conti
NAME (PLEASE PRINT) Michelle Robles PHONE NUMBER 307 276-4842 Regulatory Assistant	
SIGNATURE         DATE           N/A         12/3/2010	

06:00 06:00

24.0 CLOSED LOOP, 30% COMPLETE. – CRAIG'S ROUSTABOUT SPUD A 20" HOLE ON 10/20/10 @ 09:00 HRS, SET 60' OF 14" CONDUCTOR. CEMENT TO SURFACE WITH READY MIX. CAROL DANIELS W/UDOGM WAS NOTIFIED BY PHONE MESSAGE AND BLM WAS NOTIFIED BY EMAIL OF SPUD ON 10/18/10 @ 1:46 PM.

10-21-2010	Reported By	TI	ERRY CSERE							
DailyCosts: Dril	<b>ling</b> \$0		Com	pletion	\$0		Daily	Total	\$0	
Cum Costs: Dril	ling \$75,	000	Com	pletion	\$0		Well	<b>Fotal</b>	\$75,000	
<b>MD</b> 6	0 <b>TVD</b>	60	Progress	0	Days	0	MW	0.0	Visc	0.0
Formation :		<b>PBTD</b> : 0	0.0		Perf:			PKR Dep	oth: 0.0	
Activity at Repo	rt Time: BUILD	LOCATION								
Start End	Hrs A	ctivity Desc	ription							
06:00 06:	00 24.0 CI	LOSED LOO	P 80% COMPLE	TE.						
10-22-2010	Reported By	TI	ERRY CSERE							
DailyCosts: Dril	ling \$0		Com	pletion	\$0		Daily	Total	\$0	
Cum Costs: Dril	ling \$75,	000	Com	pletion	\$0		Well	<b>Fotal</b>	\$75,000	
	_									
<b>MD</b> 6	0 <b>TVD</b>	60	Progress	0	Days	0	MW	0.0	Visc	0.0
MD 6 Formation:	0 <b>TVD</b>	60 <b>PBTD:</b> 0		0	Days Perf :	0	MW	0.0 <b>PKR De</b> I		0.0
	1,2			0	•	0	MW			0.0
Formation :	rt Time: WORT		0.0	0	•	0	MW			0.0
Formation : Activity at Repo	rt Time: WORT  Hrs A	PBTD: 0	0.0		•	0	MW			0.0
Formation : Activity at Repo Start End	rt Time: WORT  Hrs A	PBTD: 0 ctivity Desc	cription		•	0	MW			0.0
Formation : Activity at Repo Start End 06:00 06:	rt Time: WORT  Hrs Ac 00 24.0 LC  Reported By	PBTD: 0 ctivity Desc	eription  DMPLETE. WOR  OBBY LAIN		•	0	MW Daily	PKR Dep		0.0
Formation : Activity at Repo Start End 06:00 06: 11-03-2010	rt Time: WORT  Hrs Ac 00 24.0 LC  Reported By ling \$235	PBTD: 0 ctivity Desc DCATION CC BC 5,345	eription OMPLETE. WOR OBBY LAIN Com	RT.	Perf :	0		PKR Dep	oth: 0.0	0.0
Formation : Activity at Repo Start End 06:00 06: 11-03-2010 DailyCosts: Dril	rt Time: WORT  Hrs Ac 00 24.0 LC  Reported By ling \$235 ling \$310	PBTD: 0 ctivity Desc DCATION CC BC 5,345	eription OMPLETE. WOR OBBY LAIN Com	RT.  pletion	Perf :	0	Daily	PKR Dep	\$235,345	0.0
Formation : Activity at Repo Start End 06:00 06: 11-03-2010 DailyCosts: Dril Cum Costs: Dril	rt Time: WORT  Hrs Ac 00 24.0 LC  Reported By ling \$235 ling \$310	PBTD: 0 ctivity Desc DCATION CO B0 6,345	eription  DMPLETE. WOF  OBBY LAIN  Com  Com  Progress	RT. pletion pletion	\$0 \$0		Daily Well 1	PKR Dep	\$235,345 \$310,345 <b>Visc</b>	

Activity at Report Time: WORT

Start End Hrs Activity Description

06:00 06:00

24.0 MIRU CRAIG'S AIR RIG #2 ON 10/23/2010. DRILLED 12–1/4" HOLE TO 2700' GL (2719' KB). PUMP DRILLED FROM SURFACE TO TD WITH PARTIAL RETURNS. RAN 62 JTS (2691.33') OF 9–5/8", 36.0#, J–55, ST&C CASING WITH HALLIBURTON GUIDE SHOE AND FLOAT COLLAR. 15 CENTRALIZERS SPACED MIDDLE OF SHOE JOINT AND EVERY COLLAR TILL GONE. LANDED @ 2710.33' KB. RAN 200' OF 1" PIPE DOWN BACK SIDE. RDMO CRAIG'S AIR RIG #2.

MIRU HALLIBURTON CEMENTERS. HELD SAFETY MEETING. PRESSURE TESTED LINES AND CEMENT VALVE TO 3500 PSIG. PUMPED 10 BBLS FRESH WATER & 20 BBLS GELLED WATER FLUSH AHEAD OF CEMENT. LEAD: MIXED AND PUMPED 250 SACKS (183 BBLS) OF PREMIUM LEAD CEMENT WITH 0.3% VARSET, 2% CAL—SEAL, AND 2% ECONOLITE. MIXED LEAD CEMENT @ 10.5 PPG WITH YIELD OF 4.1 CF/SX. TAIL: MIXED AND PUMPED 300 SACKS (63 BBLS) OF PREMIUM CEMENT WITH 2% CACL2 MIXED TAIL CEMENT @ 15.6 PPG WITH YIELD OF 1.18 CF/SX. DISPLACED CEMENT WITH 205 BBLS FRESH WATER. BUMPED PLUG WITH 840# @ 13:14 PM ON 11/1/10. FLOAT DID NOT HOLD. SHUT—IN CASING VALVE. BROKE CIRCULATION 5 BBLS INTO FRESH WATER FLUSH. NO CEMENT TO SURFACE. WOC 4 HR 30 MIN.

TOP JOB #1: PUMP DOWN 200' OF 1' PIPE. MIXED & PUMPED 75 SX (16 BBLS) OF PREMIUM CEMENT WITH 2% CACL2. MIXED CEMENT @ 15.8 PPG WITH YIELD OF 1.15 CF/SX. NO RETURNS. WOC 2 HR.

TOP JOB #2: PUMP DOWN 200' OF 1' PIPE. MIXED & PUMPED 100 SX (21 BBLS) OF PREMIUM CEMENT WITH 2% CACL2. MIXED CEMENT @ 15.8 PPG WITH YIELD OF 1.15 CF/SX. NO RETURNS. WOC 4 HR 15 MIN.

TOP JOB #3: PUMP DOWN 200' OF 1' PIPE. MIXED & PUMPED 100 SX (21 BBLS) OF PREMIUM CEMENT WITH 2% CACL2. MIXED CEMENT @ 15.8 PPG WITH YIELD OF 1.15 CF/SX. NO RETURNS. WOC 2 HR 0 MIN.

TOP JOB #4: PUMP DOWN 200' OF 1' PIPE. MIXED & PUMPED 50 SX (10.5 BBLS) OF PREMIUM CEMENT WITH 2% CACL2. MIXED CEMENT @ 15.8 PPG WITH YIELD OF 1.15 CF/SX. HOLE FILLED AND STOOD FULL.

PREPARED LOCATION FOR ROTARY RIG. WORT. WILL DROP FROM REPORT UNTIL FURTHER ACTIVITY.

CRAIG'S RIG #2 TOOK SURVEYS WHILE DRILLING HOLE @ 1500' = 2.00 DEGREE, 2000' = 2.00 DEGREE, AND 2650' = 2.00 DEGREE.

BOBBY LAIN NOTIFIED BLM VIA EMAIL OF THE SURFACE CASING & CEMENT JOB ON 10/30/10 @ 18:30 PM. BOBBY LAIN NOTIFIED CAROL DANIELS WITH UDOGM OF THE SURFACE CASING & CEMENT JOB VIA PHONE ON 10/30/10 @ 17:30 PM.

11-07-20	10 Re	eported I	By DA	VID GREESOI	N						
DailyCost	ts: Drilling	\$	103,201	Con	pletion	\$0		Dail	y Total	\$103,201	
Cum Cost	ts: Drilling	\$	413,547	Con	pletion	\$0		Wel	l Total	\$413,547	
MD	2,890	TVD	2,890	Progress	180	Days	1	MW	9.4	Visc	32.0
Formation	n:		<b>PBTD</b> : 0.	0		Perf:			PKR De	<b>pth:</b> 0.0	
Activity a	t Report Ti	me: DRII	LLING@ 2890'								
Start	End	Hrs	Activity Descri	ription							
06:00	21:00	15.0	MOVE RIG FROM N-80 11.6# LTO FUEL TO THE 11-6-10, FINIS	C PROD. CSG., HOSS 71–33. I	2 JT'S (21 DERRICK	.66') OF 4.5" BACK UP A	HCP-110 1	1.6# LTC M.	ARKER JT'S	AND 2280 GL	DIESEL
21:00	23:30	2.5	RIG ON DAYW PJSM WITH B MANIFOLD, K MINUTES. TES	& C QUICK TI	EST, INC. VES, UPI	PER & LOWI	ER KELLY	& INSIDE B	OP 250 LOW	V/5000 PSI HI,	
23:30	00:00	0.5	TEST CASING					) WIING LES.	ALL IEST C	JOOD.	
00:00	00:30		INSTALL WEA								
00:30	02:00	1.5	HELD SAFETY AND PU BHA		WEATHE	ERFORD LD	MACHINE A	AND ALL O	N LOCATION	N. RIG UP LD N	MACHINE
02:00	03:00	1.0	DAYLIGHT SA	VINGS TIME.	FALL BAC	CK ONE HOU	JR.				
02:00	02:30	0.5	INSTALL ROT.	HEAD RUBBE	ER, DRIVE	E BUSHING A	AND TORQ	UE KELLY.			
02:30	04:00	1.5	DRILL CEMEN WOB, 120 STK		~			MENT AND	11' OF NEW I	HOLE TO 2730°	'. 10–16K
04:00	04:30	0.5	PERFORM F.I.	TEST TO 220	PSI W/ 9.2	2 MUD WT. =	10.7EMW.				
04:30	06:00	1.5	DRILL F/2730' SPP 1850 PSI, I	,	,			B 12–18. PU	JMP 454 GPM	I @ 120 SPM O	N #1 PUMP.
			NO ACCIDENT	'S OR INCIDE	NTS REPO	ORTED.					
			SAFETY MEET	TINGS TOPICS	: MOVING	G RIG/ PU BI	IA.				
			CHECK COM I								
			FUEL RECEIV	ED 4500 GL. O	N HAND	6270 GL. USI	ED 560 GAI	٠.			
			NOTIFIED BLM	AND UDOGN	M OF BOP	TEST ON H	OSS 71–33,	11–4–10.			

06:00		D.	SPUD 7 7/8" H	COLD C CIRCO							
11-08-201	10 Re	eported By	y D	AVID GREESO	ON						
DailyCosts	s: Drilling	\$25	5,902	Co	mpletion	\$0		Dail	y Total	\$25,902	
Cum Costs	s: Drilling	\$43	39,449	Co	mpletion	\$0		Well	Total	\$439,449	
MD	5,548	TVD	5,548	Progress	2,658	Days	2	MW	9.7	Visc	34.0
Formation	ı:		<b>PBTD</b> : (	0.0		Perf:			PKR Dej	oth: 0.0	
Activity at	t Report Ti	me: DRILI	LING @ 5548'								
Start	End	Hrs A	Activity Desc	cription							
06:00	06:30			' TO 2916' (36' DIFF 240. DRI	•			12–18. PUM	P 454 GPM @	120 SPM ON	#1 PUMP.
06:30	07:00	0.5 S	SURVEY @28	34', 0.37 DEGI	REE.						
07:00	14:30			' TO 3917' (100 00 PSI, DIFF 24					UMP 454 GPN	И @ 120 SPM (	ON #1
14:30	15:00	0.5 S	SURVEY @38	34', 1.87 DEGI	REE.						
15:00	18:30			'TO 4389' (472 DIFF 240/400.	,					@ 120 SPM ON	N #1 PUMF
18:30	19:00		SERVICE RIG AUTO DRILLI	. LUBRICATE ER.	DRAW WO	RKS. CHANC	SE OUT DE	UM ENCOD	DER ON DRA	W WORKS FO	R PASON
19:00	23:00	S	SPP 2200 PSI,	' TO 4891' (502 DIFF 240. DRI	LLING: MA					@ 120 SPM ON	N #1 PUMF
23:00 23:30	23:30 06:00			11', 2.51 DEGI							
				'TO 5548' (657	, -						
			SPP 2400 PSI,	DIFF 240/450.	DRILLING	: MAHOGAN	Y OIL SHA	LE. WASAT	CH 5,018'.		
		N	NO ACCIDEN	TS OR INCIDE	ENTS REPO	RTED.			CH 5,018'.		
		N S	NO ACCIDEN SAFETY MEE	TS OR INCIDE	ENTS REPO S: HAND P	RTED. LACEMENT/S	STEAM LII	NES.	CH 5,018'.		
		N S	NO ACCIDEN SAFETY MEE CHECK COM	TS OR INCIDE TINGS TOPIC DRILLING; FU	ENTS REPO S: HAND PI JNCTIONE	RTED. LACEMENT/S D BOP. BOP I	STEAM LII DRILL 90 S	NES. EC.	CH 5,018'.		
11 00 201	10	N S C F	NO ACCIDEN SAFETY MEE CHECK COM FUEL RECEIN	TS OR INCIDE TINGS TOPIC DRILLING; FU /ED 4500 GL. O	ENTS REPO S: HAND PI JNCTIONE ON HAND 9	RTED. LACEMENT/S D BOP. BOP I	STEAM LII DRILL 90 S	NES. EC.	CH 5,018°.		
		N S C F eported By	NO ACCIDEN SAFETY MEE CHECK COM FUEL RECEIV	TS OR INCIDE TINGS TOPIC DRILLING; FU /ED 4500 GL. ( AVID GREESO	ENTS REPO S: HAND PI JNCTIONE DN HAND 9	RTED. LACEMENT/S D BOP. BOP I 0576 GL. USE	STEAM LII DRILL 90 S	NES. EC. L.			
DailyCosts	s: Drilling	S C F eported By \$25	NO ACCIDEN SAFETY MEE CHECK COM FUEL RECEIV y D	TS OR INCIDE TINGS TOPIC DRILLING; FU /ED 4500 GL. C AVID GREESC Co	ENTS REPO S: HAND PI JNCTIONE DN HAND 9 DN mpletion	RTED. LACEMENT/S D BOP. BOP I 0576 GL. USE \$0	STEAM LII DRILL 90 S	NES. EC. L. <b>Dail</b>	y Total	\$25,911	
DailyCosts		S C F eported By \$25	NO ACCIDEN SAFETY MEE CHECK COM FUEL RECEIV	TS OR INCIDE TINGS TOPIC DRILLING; FU /ED 4500 GL. C AVID GREESC Co	ENTS REPO S: HAND PI JNCTIONE DN HAND 9	RTED. LACEMENT/S D BOP. BOP I 0576 GL. USE	STEAM LII DRILL 90 S	NES. EC. L. <b>Dail</b>		\$25,911 \$465,361	
DailyCosts	s: Drilling	S C F eported By \$25	NO ACCIDEN SAFETY MEE CHECK COM FUEL RECEIV y D	TS OR INCIDE TINGS TOPIC DRILLING; FU /ED 4500 GL. C AVID GREESC Co	ENTS REPO S: HAND PI JNCTIONE DN HAND 9 DN mpletion	RTED. LACEMENT/S D BOP. BOP I 0576 GL. USE \$0	STEAM LII DRILL 90 S	NES. EC. L. <b>Dail</b>	y Total		38.0
DailyCosts Cum Costs MD	s: Drilling s: Drilling 7,010	S C F eported By \$25 \$46	NO ACCIDEN SAFETY MEE CHECK COM FUEL RECEIV D 5,911 55,361	TS OR INCIDE TINGS TOPIC DRILLING; FU /ED 4500 GL. C AVID GREESC Co Progress	ENTS REPO S: HAND PI JNCTIONE DN HAND S DN mpletion mpletion	RTED. LACEMENT/S D BOP. BOP I 0576 GL. USE \$0 \$0	STEAM LII DRILL 90 S D 1194 GA	NES. EC. L. Daily Well	y Total Total	\$465,361 <b>Visc</b>	38.0
DailyCosts Cum Costs MD Formation	s: Drilling s: Drilling 7,010	S C F eported By \$25 \$46	NO ACCIDEN SAFETY MEE CHECK COM FUEL RECEIV y D 5,911 55,361 7,010	TS OR INCIDE TINGS TOPICA DRILLING; FU /ED 4500 GL. C  AVID GREESC  Coi  Progress  0.0	ENTS REPO S: HAND PI JNCTIONE DN HAND S DN mpletion mpletion	RTED. LACEMENT/S D BOP. BOP I 0576 GL. USE \$0 \$0 Days	STEAM LII DRILL 90 S D 1194 GA	NES. EC. L. Daily Well	y Total Total 10.4	\$465,361 <b>Visc</b>	38.0
DailyCosts Cum Costs MD Formation Activity at	s: Drilling s: Drilling 7,010	N S C F eported By \$25 \$46 TVD	NO ACCIDENT SAFETY MEE CHECK COM FUEL RECEIV y D 5,911 55,361 7,010 PBTD: 0	TS OR INCIDE TINGS TOPIC DRILLING; FU /ED 4500 GL. C AVID GREESC Co Progress 0.0	ENTS REPO S: HAND PI JNCTIONE DN HAND S DN mpletion mpletion	RTED. LACEMENT/S D BOP. BOP I 0576 GL. USE \$0 \$0 Days	STEAM LII DRILL 90 S D 1194 GA	NES. EC. L. Daily Well	y Total Total 10.4	\$465,361 <b>Visc</b>	38.0
DailyCosts Cum Costs MD Formation Activity at	s: Drilling s: Drilling 7,010 n: t Report Tin	S S C F Eported By \$25 \$46  TVD  me: DRILL Hrs A 7.5 E	NO ACCIDENT SAFETY MEE CHECK COM FUEL RECEIV TO D	TS OR INCIDE TINGS TOPIC DRILLING; FU /ED 4500 GL. C AVID GREESC Co Progress 0.0	ENTS REPO S: HAND PI JNCTIONE DN HAND 9 DN mpletion 1,462	RTED. LACEMENT/S D BOP. BOP I 0576 GL. USE \$0 \$0 <b>Days Perf:</b>	STEAM LII DRILL 90 S D 1194 GA 3 MM. WOB	NES. EC. L.  Daily Well MW	y Total Total 10.4 PKR Dep	\$465,361 <b>Visc</b> <b>oth</b> : 0.0	
DailyCosts Cum Costs MD Formation Activity at	s: Drilling s: Drilling 7,010 1: t Report Tin	S C F P P P P P P P P P P P P P P P P P P	NO ACCIDENT SAFETY MEE CHECK COM FUEL RECEIV TO D	TS OR INCIDE TINGS TOPIC DRILLING; FU /ED 4500 GL. C AVID GREESC Co Progress 0.0 cription 'TO 6138' (590 DIFF 100/400.	ENTS REPO S: HAND PI JNCTIONE DN HAND 9 DN mpletion 1,462	RTED. LACEMENT/S D BOP. BOP I 0576 GL. USE \$0 \$0 <b>Days Perf:</b>	STEAM LII DRILL 90 S D 1194 GA 3 MM. WOB	NES. EC. L.  Daily Well MW	y Total Total 10.4 PKR Dep	\$465,361 <b>Visc</b> <b>oth</b> : 0.0	
DailyCosts Cum Costs MD Formation Activity at	s: Drilling s: Drilling 7,010 1: t Report Tin	Peported By \$25 \$46  TVD  me: DRILL  Hrs A 7.5 E S M 0.5 S	NO ACCIDENT SAFETY MEE CHECK COM FUEL RECEIV TO	TS OR INCIDE TINGS TOPICE DRILLING; FU /ED 4500 GL. C  AVID GREESC  Co: Progress  0.0  cription ' TO 6138' (590 DIFF 100/400. VIS 36 LUBRICATE	ENTS REPO S: HAND PI JNCTIONE DN HAND 9 DN mpletion 1,462	RTED. LACEMENT/S D BOP. BOP I 0576 GL. USE \$0 \$0 Days Perf: 50 RPM + 73 WASATCH 5	STEAM LII DRILL 90 S D 1194 GA 3 MM. WOB 5,018', CHA	NES. EC. L. Daily Well MW  18–22. PUM PITA WELL ECK COM I	y Total  Total  10.4  PKR Dep  IP 454 GPM @ S 5,621'.	\$465,361  Visc  oth: 0.0	#1 PUMP.
DailyCosts Cum Costs MD Formation Activity at Start 06:00	s: Drilling 7,010  1: t Report Tin End 13:30	N S C C F P P P P P P P P P P P P P P P P P	NO ACCIDENT SAFETY MEE CHECK COM FUEL RECEIV  5,911 55,361 7,010 PBTD: ( LING @ 7010* Activity Desc DRILL F/5548 SPP 2400 PSI, MUD WT. 9.9* SERVICE RIG DRILL F/6138 SPP 2600 PSI,	TS OR INCIDE TINGS TOPIC DRILLING; FU /ED 4500 GL. C AVID GREESC  Co Progress 0.0  'TO 6138' (590 DIFF 100/400. VIS 36 LUBRICATE 'TO 7010' (872 DIFF 150/400.	ENTS REPO S: HAND PI JNCTIONE DN HAND 9 DN mpletion 1,462 O') 79' FPH. DRILLING DRAW WO	RTED. LACEMENT/S D BOP. BOP I D576 GL. USE \$0 \$0 Days Perf:  50 RPM + 73 WASATCH 5 RKS AND BL 50 RPM + 70	STEAM LII DRILL 90 S D 1194 GA  3 MM. WOB 5,018', CHA OCKS. CH MM. WOB	NES. EC. L.  Daily Well MW  18–22. PUM PITA WELL  ECK COM I 18–22. PUM	y Total Total 10.4 PKR Dep  IP 454 GPM @ S 5,621'.  DRLG. IP 435 GPM @	\$465,361  Visc  oth: 0.0	#1 PUMP.
MD Formation Activity at Start 06:00	s: Drilling 7,010  1: t Report Tin End 13:30	N S C C F P P P P P P P P P P P P P P P P P	NO ACCIDENT SAFETY MEE CHECK COM FUEL RECEIV TO D	TS OR INCIDE TINGS TOPIC DRILLING; FU /ED 4500 GL. C AVID GREESC  Co Progress 0.0  'TO 6138' (590 DIFF 100/400. VIS 36 LUBRICATE 'TO 7010' (872 DIFF 150/400.	ENTS REPO S: HAND PI JNCTIONE DN HAND 9 DN mpletion 1,462 O') 79' FPH. DRILLING DRAW WO	RTED. LACEMENT/S D BOP. BOP I D576 GL. USE \$0 \$0 Days Perf:  50 RPM + 73 WASATCH 5 RKS AND BL 50 RPM + 70	STEAM LII DRILL 90 S D 1194 GA  3 MM. WOB 5,018', CHA OCKS. CH MM. WOB	NES. EC. L.  Daily Well MW  18–22. PUM PITA WELL  ECK COM I 18–22. PUM	y Total Total 10.4 PKR Dep  IP 454 GPM @ S 5,621'.  DRLG. IP 435 GPM @	\$465,361  Visc  oth: 0.0	#1 PUMP.
DailyCosts Cum Costs MD Formation Activity at Start 06:00	s: Drilling 7,010  1: t Report Tin End 13:30	Peported By \$25 \$46  TVD  me: DRILL  Hrs A  7.5 E  S  0.5 S  16.0 E  S	NO ACCIDENT SAFETY MEE CHECK COM FUEL RECEIV TO	TS OR INCIDE TINGS TOPIC DRILLING; FU /ED 4500 GL. C AVID GREESC  Co Progress 0.0  'TO 6138' (590 DIFF 100/400. VIS 36 LUBRICATE 'TO 7010' (872 DIFF 150/400.	ENTS REPO S: HAND PI JNCTIONE DN HAND 9 DN mpletion 1,462 DY 79' FPH. DRILLING DRAW WO DRILLING DRILLING	RTED. LACEMENT/S D BOP. BOP I 0576 GL. USE \$0 \$0 Days Perf: 50 RPM + 73 WASATCH 5 RKS AND BL 50 RPM + 70 BUCK CAN	STEAM LII DRILL 90 S D 1194 GA  3 MM. WOB 5,018', CHA OCKS. CH MM. WOB	NES. EC. L.  Daily Well MW  18–22. PUM PITA WELL  ECK COM I 18–22. PUM	y Total Total 10.4 PKR Dep  IP 454 GPM @ S 5,621'.  DRLG. IP 435 GPM @	\$465,361  Visc  oth: 0.0	#1 PUMP.
DailyCosts Cum Costs MD Formation Activity at 06:00	s: Drilling 7,010  1: t Report Tin End 13:30	TVD  me: DRILL  Hrs A  7.5 E  S  16.0 E  S  M	NO ACCIDENT SAFETY MEE CHECK COM FUEL RECEIV TO S,911 S5,911 S5,361 7,010 PBTD: ( LING @ 7010* Activity Desc DRILL F/5548 SPP 2400 PSI, MUD WT. 9.9* SERVICE RIG DRILL F/6138 SPP 2600 PSI, MUD WT. 10.4* NO ACCIDENT	TS OR INCIDE TINGS TOPIC: DRILLING; FU /ED 4500 GL. C  AVID GREESC  Co: Progress  0.0  cription ' TO 6138' (590 DIFF 100/400. VIS 36 LUBRICATE ' TO 7010' (872 DIFF 150/400. 4 VIS. 38.	ENTS REPO S: HAND PI UNCTIONE DN HAND 9  ON  mpletion 1,462  O') 79' FPH. DRILLING  DRAW WO O') 55' FPH. DRILLING	RTED. LACEMENT/S D BOP. BOP I D576 GL. USE \$0 \$0 Days Perf:  50 RPM + 73 WASATCH 5 RKS AND BL 50 RPM + 70 BUCK CANTERLED.	STEAM LII DRILL 90 S D 1194 GA 3 MM. WOB 5,018', CHA .OCKS. CH MM. WOB YON 6300'	NES. EC. L. Daily Well MW  18–22. PUM PITA WELL ECK COM I 18–22. PUM NORTH HO	y Total Total 10.4 PKR Dep  IP 454 GPM @ S 5,621'.  DRLG. IP 435 GPM @	\$465,361  Visc  oth: 0.0	#1 PUMP.

FUEL ON	HAND	7695	GL.	USED	1881	GAL.

		I	FUEL ON HAN	ND 7695 GL. U	SED 1881 (	GAL.					
11-10-20	10 Re	eported B	<b>y</b> D.	AVID GREESC	N						
DailyCost	ts: Drilling	\$28	8,203	Cor	npletion	\$6,492		Daily	y Total	\$34,695	
Cum Cost	ts: Drilling	\$49	93,564	Con	npletion	\$6,492		Well	Total	\$500,056	
MD	8,200	TVD	8,200	Progress	1,190	Days	4	MW	11.0	Visc	38.0
Formation	n:		<b>PBTD</b> : 0	0.0		Perf:			PKR De <sub>l</sub>	oth: 0.0	
Activity a	t Report Ti	me: DRILI	LING @ 8200'								
Start	End	Hrs A	Activity Desc	cription							
06:00	13:00			' TO 7355' (345 DIFF 150/400. I	,					115 SPM ON	#1 PUMP.
		ľ	MUD WT. 10.5	5 VIS. 36.							
13:00	13:30	0.5 \$	SERVICE RIG.	. LUBRICATE	DRAW WO	RKS AND BLO	OCKS.				
13:30	06:00			'TO 8200' (845 DIFF 150/400. I	*					110 SPM ON	#2 PUMP.
		N	MUD WT. 11.0	) VIS. 38.							
				TS OR INCIDE							
				TING TOPICS:			BASKET.				
				DRILLING; FU							
				) SEC. BOILER							
		ŀ		ND 5700 GL. U		з̀AL.					
11-11-20	10 Re	eported By	y D	AVID GREESC	Ν						
DailyCost	ts: Drilling	\$30	0,300	Cor	npletion	\$543		Daily	y Total	\$30,843	
Cum Cost	ts: Drilling	\$52	23,864	Cor	npletion	\$7,035		Well	Total	\$530,900	
MD	9,100	TVD	9,100	Progress	900	Days	5	MW	11.4	Visc	39.0
Formation	n:		<b>PBTD</b> : 0	0.0		Perf:			PKR De <sub>l</sub>	oth: 0.0	
Activity a	t Report Ti	me: DRILI	LING @ 9100'	•							
Start	End	Hrs A	Activity Desc	cription							
06:00	10:00			'TO 8349 (149' DIFF 100/300. I	*					120 SPM ON	#1 PUMP.
			MUD WT. 11.2								
10:00	10:30			. LUBRICATE							
10:30	06:00	\$	SPP 2600 PSI, 1	'TO 9100' (751 DIFF 100/300. I	*					20 SPM ON	#1 PUMP.
		N	MUD WT. 11.4	4 VIS. 39.							
				TS OR INCIDE							
		S	SAFETY MEE	TINGS: SHUT	TING IN BO	OILER /SLIPS	& FALLS.				
		(	CHECK COM	DRILLING; FU	INCTIONE	D BOP.					
		I	BOP DRILL 90	) SEC. BOILER	18 HOURS	S.					
		I	FUEL ON HAN	ND 3648 GL. U	SED 2050 C	GAL.					
11-12-20	10 Re	eported By	<b>y</b> D.	AVID GREESC	N						
DailyCost	s Drilling	0.5									
	o. Diming	\$3.	1,492	Cor	npletion	\$0		Daily	y Total	\$51,492	

MD	9,600	TVD	9,600	Progress	500	Days	6	MW	11.5	Visc	39.0
Formation	ı:		<b>PBTD</b> : 0.	0		Perf:			PKR Dep	<b>th:</b> 0.0	
Activity at	Report Ti	me: DRII	LLING @ 9600'								
Start	End	Hrs	Activity Descr	ription							
06:00	11:30	5.5	DRILL F/9100' SPP 2600 PSI, D	,	*					120 SPM ON	N #1 PUMP.
			MUD WT. 11.4	VIS. 39.							
11:30	12:00	0.5	SERVICE RIG.	FUNCTION C	OM.						
12:00	13:00	1.0	DRILL F/9259' SPP 2600 PSI, D	` '						120 SPM ON	#1 PUMP.
			MUD WT. 11.4	VIS. 39.; PUM	IP HIGH-	VIS. SWEEP E	BEFORE TO	OH.			
13:00	18:00	5.0	TRIP OUT OF I	HOLE. TIGHT	SPOT @58	311'; 5781'; 5,3	312'; 4,938;	4,845'. 20-4	0K DRAG UP	, FREE DOW	N.
			LD ROLLER RI	EAMERS AND	BIT #1. P	U SECURITY	FX65M W/	6-13 JETS 1	FOR BIT#2.		
18:00	23:00	5.0	TRIP IN THE H			IT #2. WASH I	BRIDGE @	6,075'. TIGI	HT SPOTS @ 6	5924'; 8750';	AND 8890'.
23:00	00:00	1.0	WASH AND RE	EAM F/8890' To	O 9290'.						
00:00	06:00	6.0	DRILL F/9290' SPP 2600 PSI, E HIGH– VIS. SW	DIFF 100/300. I	RILLING	: LOWER PRI					
			SAFETY MEET	INGS: MIXIN	G CHEMIO	CALS/LD REA	AMERS.				
			CHECK COM I								
			FUNCTIONED				HOURS.				
			FUEL RECIEVI								
			HALLIBURTON	N BULK TRUC	CK & TRAI	LER TIPPED	OVER WHI	EN ENTERII	NG LOCATIO	N ROAD, NO	INJURIES
			SUSTAINED.								
11-13-201	10 Re	ported l	By DA	VID GREESO	N						
DailyCosts	s: Drilling	\$	31,314	Con	npletion	\$106,406		Daily	y Total	\$137,720	
Cum Cost	s: Drilling	\$	606,672	Con	npletion	\$113,441		Well	Total	\$720,113	
MD	9,700	TVD	9,700	Progress	100	Days	7	MW	11.6	Visc	39.0
Formation	ı:		<b>PBTD</b> : 0.	0		Perf:			PKR Dep	<b>th:</b> 0.0	
Activity at	Report Ti	me: CEM	MENTING PROD	UCTION CSG							
Start	End	Hrs	Activity Descr	ription							
06:00	07:30	1.5	DRILL F/9600' SPP 2600 PSI, E SMALL AMOU	TO 9681' (81') DIFF 100/300. I	ORILLING	: SEGO 9,503'	. MUD WT				
07:30	08:00	0.5	SERVICE RIG.								
08:00	08:30	0.5	DRILL F/9681' SPP 2600 PSI, E SMALL AMOU	DIFF 100/300. I	ORILLING	: SEGO 9,503	. MUD WT	. 11.6 VIS. 3	9.; PUMP HIG	H– VIS. SWI	
08:30	09:30	1.0	CIRCULATE B	EFORE SHOR	Γ TRIP. WA	AIT FOR RETU	URNING SV	VEEP FOR I	BOTTOMS UP		
09:30	10:30	1.0	SHORT TRIP 10	O STANDS. NO	TIGHT S	POTS.					
10:30	11:30	1.0	CIRCULATE BO MEETING W/ A				ATHERFOR	D TRS LD I	MACHINE AN	D HELD SAI	FETY
11:30	12:00	0.5	DROP SURVEY BACK.	(3.01 DEGRE	EE @ 9,632	') AND WATC	TH FOR FLO	W. NO FLO	W, PUMP DR	YJOB SLUG	AND KELLY
12:00	18:00	6.0	LD DRILL PIPE	E AND BHA. T	IGHT SPO	TS @ 4689' A	ND F/8368'	TO 8398'. B	REAK KELLY	Y.	

		**CASING POINT @ 12:00, 11–12–10.
18:00	18:30	0.5 PULL WEAR BUSHING FROM WELLHEAD W/ DP.
18:30	19:30	1.0 RU WEATHERFORD CASING TOOLS AND HELD SAFETY MEETING WITH ALL ON LOCATION.
19:30	02:00	6.5 HELD SAFETY MEETING W/RIG CREWS & WEATHERFORD TRS CASING CREW. RU CASING TOOLS & RAN A TOTAL OF 240 JTS 4 1/2", 11.6#, N–80, LTC CASING AS FOLLOWS & LANDED FLOAT SHOE @ 9,697.69', 1 JT. CASING, FLOAT COLLAR W/LATCH DOWN ASSEMBLY TOP @ 9654.97'; 56 JTS TO MARKER JOINT (21.62') @ 7,387.94'; 71 JT.'S CASING TO SECOND MARKER JOINT (19.15') @ 4,548.66' AND 112 JT'S 4.5" N–80 CASING TO 2 – 4.5" P–110 11.6# PUP JT'S (10.89' & 10.76'). BEFORE CASING MANDREL HANGER (6.00'). RAN 3 TURBULIZERS, 1 – 5' ABOVE SHOE 1 EACH IN MIDDLE OF JTS 2 & 3. RAN 25 CENTRALIZERS STARTING ON JT. #4 AND ON EVERY THIRD JT. UNTIL GONE. TAG BOTTOM W/ JOINT # 241 LAYED IT BACK DOWN. PICKED UP LANDING JOINT AND LANDED CASING W/ 85,000 ON HANGER.
02:00	05:00	3.0 CIRCULATING CASING WHILE RD WEATHERFORD CASERS SERVICE TOOLS. MOVE OUT LD MACHINE AND MOVE IN BADGER VAC-TRUCKS TO CLEAN TANKS. MOBILIZE IN HALLIBURTON CEMENT TRUCKS ARRIVING ON LOCATION AT 03:00 AM. RU HALLIBURTON CEMENTERS AND HARDLINE TO THE FLOOR. SHUT DOWN PUMP AND CHECK FOR FLOW. REPLACE SWEDGE W/ CEMENT HEAD. HELD SAFETY MEETING OVER SAFE PRACTICES W/ HALLIBURTON AND RIG CREW.
05:00	06:00	1.0 TEST PUMP & LINES TO 5000 PSI & CEMENT CASING AS FOLLOWS; 20 BBLS MUD FLUSH, 10 BBLS FRESH WATER, MIX & PUMP 430 SKS.(140 BBLS) HIGHBOND LEAD CEMENT MIXED @ 12.0 PPG, 1.83 Y, 9.82 GAL/SK WATER. PLUS 1350 SKS (351 BBLS.) EXTENDACEM TAIL CEMENT MIXED @ 13.5 PPG, 1.47 Y, 6.98 GAL/SK WATER. PUMPING CEMENT AT REPORT TIME. FULL RETURNS OF MUD WHILE PUMPING.
		NO ACCIDENTS OR INCIDENTS REPORTED.
		SAFETY MEETINGS: RUNNING CASING/CEMENTING.
		CHECK COM DRILLING AND TRIPPING.
		FUNCTIONED BOP. BOP DRILL 90 SEC. BOILER 12 HOURS.
		FUEL ON HAND 3306 GL. USED 1368 GL.
11-14-201	0 Rej	ported By DAVID GREESON

•	ts: Drilling		26,804 633,476		pletion	\$58,710 \$172,151		•	Total Total	\$85,514 \$805,628	
MD	9,700	TVD	9,700	Progress	0	Days	8	MW	0.0	Visc	0.0
Formatio	n:		<b>PBTD</b> : 0	.0		Perf:			PKR Dep	oth: 0.0	
Activity a	t Report Tir	me: RDR	T/WO COMPLE	ETION							
Start	End	Hrs	Activity Desc	ription							
06:00	07:30	1.5	WATER. PLUS WATER. WASH	& PUMP 430 SK 1350 SKS (351 I PUMP & LINE & @ 7.0 BPM AV 000 PSI) 2 MIN.	S.(140 BE BBLS.) E ES, LOAD /ERAGE, RELEASI	BLS) HIGHBO XTENDACEM & DROP TOF BUMP PLUG ED PRESSURI	OND LEAD OF TAIL CEMP PLUG INT W/1500 PSIE, FLOW B	CEMENT MI MENT MIXEI TO CEMENT I OVER FCP ACK 2.5 BBI	IXED @ 12.0 D @ 13.5 PPG HEAD. DISF OF 2500 PSI LS. RE PRESS	PPG, 1.83 Y, 9 t, 1.47 Y, 6.98 C PLACED WITH @ 4 BPM. HEI SURED UP TO	.82 GAL/SK GAL/SK I 150 BBLS LD 2500 PSI
07:30	08:30	1.0	RD HALLIBUE RELEASE HEA			HOLD 2500 P	SI PRESSU	RE ON CEM	ENTING HEA	AD FOR ONE I	HOUR.
08:30	09:00	0.5	SET PACK OFF	FRING ON CAS	SING HAI	NGER W/ FMC	C TECH HA	ND. TEST T	HE SAME TO	5000 PSI.	
09:00	10:00	1.0	NIPPLE DOWN OFF LIQUID M								S. HAUL

MOVE RIG FROM THE HOSS 71–33 TO THE HOSS 73–33, 1.4 MILES. TRANSFERRING 6 JT'S (241.68') OF 4.5" N–80 11.6# LTC PROD. CSG..; 1 JT. (5.64') OF 4.5" HCP–110 11.6# LTC MARKER JT'S AND 3306 GL. DIESEL FUEL TO THE HOSS 73–33. DERRICK LAYED OVER AT 12:00 11–13–10. RW JONES TRUCKS BEGIN RIG MOVE AT 10:00 11-13-10.

NO ACCIDENTS OR INCIDENTS REPORTED.

SAFETY MEETINGS: CEMENTING/ RIG MOVE. .

FUEL ON HAND 3306 GL.; BOILER 12 HOURS.

10:00 RELEASE RIG @ 10:00 HRS, 11–13–10.

CASING POINT COST \$633,477

11-17-20	10 R	Reported	By	SEARLE							
DailyCost	ts: Drilling		\$0		Completion	\$30,300		Daily	Total	\$30,300	
Cum Cost	ts: Drilling		\$633,476		Completion	\$202,451		Well 7	<b>Fotal</b>	\$835,928	
MD	9,700	TVD	9,700	Progre	ess 0	Days	9	MW	0.0	Visc	0.0
Formation	n:		PBTD:	9655.0		Perf:			PKR Dep	oth: 0.0	
Activity a	t Report T	ime: PR	EP FOR FRACS	;							
Start	End	Hrs	Activity Des	scription							
06:00			MIRU SCHLI RDWL.	UMBERGE	ER. LOG WITH R	ST/CBL/CCL/V	DL/GR F	ROM 9545' T	O 890'. EST	CEMENT TOP	@ 2930'.

	STATE OF UTAH DEPARTMENT OF NATURAL RESOURCE	TEC.	FORM 9
	DIVISION OF OIL, GAS, AND MI		<b>5.LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU64422
	RY NOTICES AND REPORTS		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for propo bottom-hole depth, reenter plu DRILL form for such proposals	sals to drill new wells, significantly deepe ugged wells, or to drill horizontal laterals.	n existing wells below current Use APPLICATION FOR PERMIT TO	7.UNIT or CA AGREEMENT NAME: BADLANDS
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: HOSS 71-33
2. NAME OF OPERATOR: EOG Resources, Inc.			9. API NUMBER: 43047397140000
3. ADDRESS OF OPERATOR: 1060 East Highway 40 , Verna		DNE NUMBER: 111 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0709 FSL 0190 FWL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSHI Qtr/Qtr: SWSW Section: 33	IP, RANGE, MERIDIAN: 3 Township: 08.0S Range: 23.0E Meridian	: S	STATE: UTAH
11. CHE	CK APPROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE, REPORT,	OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	☐ ACIDIZE	☐ ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
_	☐ CHANGE WELL STATUS	$\square$ commingle producing formations	☐ CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	OPERATOR CHANGE	☐ PLUG AND ABANDON	PLUG BACK
SPUD REPORT	☐ PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	☐ TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
✓ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
12/22/2010	☐ WILDCAT WELL DETERMINATION	OTHER	OTHER:
The referenced well the attached operation	was turned to sales on Dece was turned to sales on Dece ons summary report for drillin performed on the subject	mber 22, 2010. Please see g and completion operation well.  Oi  FOF	•
NAME (PLEASE PRINT) Michelle Robles	<b>PHONE NUMBER</b> 307 276-4842	R TITLE Regulatory Assistant	
SIGNATURE N/A		<b>DATE</b> 12/23/2010	

# WELL CHRONOLOGY **REPORT**

Report Generated On: 12-22-2010

Well Name	HOSS 071-33	Well Type	DEVG	Division	DENVER
Field	PONDEROSA	API#	43-047-39714	Well Class	COMP
County, State	UINTAH, UT	Spud Date	11-07-2010	Class Date	
Tax Credit	N	TVD / MD	9,700/9,700	Property #	061540
Water Depth	0	Last CSG	2.375	Shoe TVD / MD	0/0
KB / GL Elev	4,988/ 4,972				
Location	Section 33, T8S, R23E, SWSV	W, 709 FSL & 190 FW	L		

Event No	1.0	De	escription	DRILL & COMPLE	TE			
Operator	EOG RESOUR	CES, INC W	T %	100.0	NRI %	6	7.0	
AFE No	304722	A	AFE Total	1,641,900	DHC/C	WC	660,500/ 9	981,400
Rig Contr	TRUE	Rig Name	TRUE #34	Start Date	12-09-2008	Release D	ate 11-	-13-2010
12-09-2008	Reported By	SHEI	LA MALLOY					
DailyCosts: Da	rilling \$0		Completi	<b>ion</b> \$0	Daily	Total	\$0	
Cum Costs: D	rilling \$0		Completi	<b>ion</b> \$0	Well	<b>Fotal</b>	\$0	
MD	0 <b>TVD</b>	0 <b>P</b>	Progress	Days	0 <b>MW</b>	0.0	Visc	0.0
Formation:		<b>PBTD</b> : 0.0		Perf:		PKR Dep	<b>th</b> : 0.0	

**Activity at Report Time:** LOCATION DATA

Start **Activity Description** 

06:00 06:00 24.0 LOCATION DATA (PROG 10/12/10)

> 709' FSL & 190' FWL (SW/SW) **SECTION 33, T8S, R23E** UINTAH COUNTY, UTAH

LAT 40.073972, LONG 109.340178 (NAD 27) LAT 40.073936, LONG 109.340858 (NAD 83)

TRUE #34

OBJECTIVE: 9700' TD, MESAVERDE

DW/GAS

PONDEROSA PROSPECT DD&A: CHAPITA DEEP NATURAL BUTTES FIELD

LEASE: U-64422

ELEVATION: 4973.1' NAT GL, 4972.4' PREP GL (DUE TO ROUNDING THE PREP GL WILL BE 4972') 4991' KB

(19')

EOG WI 100%, NRI 67%

10-14-2010 Reported By TERRY CSERE

DailyCosts: Drilling	\$75,000		Com	pletion	\$0		Daily	y Total	\$75,000	
<b>Cum Costs: Drilling</b>	\$75,000		Com	pletion	\$0		Well	Total	\$75,000	
<b>MD</b> 0	TVD	0	Progress	0	Days	0	MW	0.0	Visc	0.0
Formation:	P	<b>BTD</b> : 0.0	1		Perf:			PKR De <sub>l</sub>	<b>pth:</b> 0.0	
Activity at Report Ti	me: BUILD LO	CATION								
Start End	Hrs Activ	ity Descri	iption							
06:00 06:00	24.0 BEGA	AN CONST	RUCTION OF	LOCATIO	ON TODAY, 10	/14/10.				
10-15-2010 Re	eported By	TEF	RRY CSERE							
DailyCosts: Drilling	\$0		Com	pletion	\$0		Daily	y Total	\$0	
<b>Cum Costs: Drilling</b>	\$75,000		Com	pletion	\$0		Well	Total	\$75,000	
<b>MD</b> 0	TVD	0	Progress	0	Days	0	MW	0.0	Visc	0.0
Formation:	P	<b>BTD</b> : 0.0	ı		Perf:			PKR De <sub>l</sub>	<b>pth:</b> 0.0	
Activity at Report Ti	me: BUILD LO	CATION								
Start End	Hrs Activ	ity Descri	iption							
06:00 06:00	24.0 LOCA	TION 10%	COMPLETE.							
10-18-2010 Re	eported By	TER	RRY CSERE							
DailyCosts: Drilling	\$0		Com	pletion	\$0		Daily	y Total	\$0	
<b>Cum Costs: Drilling</b>	\$75,000		Com	pletion	\$0		Well	Total	\$75,000	
Cum Costs. Dinning					ъ	0	$\mathbf{MW}$	0.0	Visc	0.0
_	TVD	0	Progress	0	Days	U	111 11		7 100	
<b>MD</b> 0		0 <b>BTD:</b> 0.0	=	0	Days Perf:	Ü	141 44	PKR De <sub>l</sub>		
MD 0 Formation:	P	<b>BTD</b> : 0.0	=	0	=	v	171 11	PKR Dej		
MD 0  Formation: Activity at Report Ti	P me: BUILD LO	<b>BTD</b> : 0.0		0	=	v	141	PKR Dej		
MD 0  Formation: Activity at Report Ti	P me: BUILD LO Hrs Activ 24.0 LOCA SET + NOTI	BTD: 0.0 CATION ity Descri ATION 50% -/-60' OF 1 FIED BY P	i <b>ption</b> COMPLETE. 4" CONDUCT	CRAIG'S OR. CEMI AGE AND	Perf:  ROUSTABOU ENT TO SURF	IT SERVIC FACE WITH	E SPUDS A H READY M	20" HOLE OI IX. CAROL E		OGM WAS
MD 0  Formation: Activity at Report Ti  Start End 06:00 06:00	P me: BUILD LO Hrs Activ 24.0 LOCA SET + NOTI	BTD: 0.0 CATION  ity Descrition 50%  /-60' OF 1 FIED BY P FICATION	iption COMPLETE. 4" CONDUCT HONE MESSA	CRAIG'S OR. CEMI AGE AND	Perf:  ROUSTABOU ENT TO SURF	IT SERVIC FACE WITH	E SPUDS A H READY M	20" HOLE OI IX. CAROL E	oth: 0.0 N 10/20/2010 @ OANIELS W/UI	OGM WAS
MD 0  Formation: Activity at Report Ti  Start End 06:00 06:00	me: BUILD LO Hrs Activ 24.0 LOCA SET + NOTI	BTD: 0.0 CATION  ity Descrition 50%  /-60' OF 1 FIED BY P FICATION	iption  COMPLETE. 4" CONDUCT HONE MESSA S SENT ON 10  RRY CSERE	CRAIG'S OR. CEMI AGE AND	Perf:  ROUSTABOU ENT TO SURF	IT SERVIC FACE WITH	EE SPUDS A H READY M Y EMAIL OI	20" HOLE OI IX. CAROL E	oth: 0.0 N 10/20/2010 @ OANIELS W/UI	OGM WAS
MD 0  Formation: Activity at Report Ti  Start End 06:00 06:00  10-19-2010 Re	me: BUILD LO Hrs Activ 24.0 LOCA SET + NOTI NOTI	BTD: 0.0 CATION  ity Descrition 50%  /-60' OF 1 FIED BY P FICATION	iption  COMPLETE. 4" CONDUCT HONE MESSA S SENT ON 10 RRY CSERE  Com	CRAIG'S OR. CEM AGE AND 0/18/2010. apletion	Perf:  ROUSTABOU ENT TO SURF BLM WAS NO	IT SERVIC FACE WITH	E SPUDS A H READY M Y EMAIL OI Daily	20" HOLE ON IX. CAROL E F SPUD ON 1	pth: 0.0 N 10/20/2010 @ DANIELS W/UI 0/20/10 @ 09:0	OGM WAS
MD 0  Formation: Activity at Report Ti  Start End 06:00 06:00  10-19-2010 Ro  DailyCosts: Drilling Cum Costs: Drilling	me: BUILD LO Hrs Activ 24.0 LOCA SET + NOTI NOTI	BTD: 0.0 CATION  ity Descrition 50%  /-60' OF 1 FIED BY P FICATION	iption  COMPLETE. 4" CONDUCT HONE MESSA S SENT ON 10  RRY CSERE  Com Com	CRAIG'S OR. CEM AGE AND )/18/2010.	Perf:  ROUSTABOU ENT TO SURF BLM WAS NO	IT SERVIC FACE WITH	EE SPUDS A H READY M Y EMAIL OI Daily Well	20" HOLE ON IX. CAROL E F SPUD ON 1 y <b>Total</b>	pth: 0.0 N 10/20/2010 @ DANIELS W/UE 0/20/10 @ 09:0	OGM WAS
MD 0  Formation: Activity at Report Ti Start End 06:00 06:00  10-19-2010 Ro DailyCosts: Drilling Cum Costs: Drilling MD 0	me: BUILD LO Hrs Activ 24.0 LOCA SET + NOTI NOTI Peported By \$0 \$75,000	CATION  ity Descrition 50%  /-60' OF 1  FIED BY P  FICATION  TEF	iption  COMPLETE. 4" CONDUCT HONE MESSA S SENT ON 10 RRY CSERE  Com Com	CRAIG'S OR. CEM! AGE AND 1/18/2010.  Apletion apletion	Perf:  ROUSTABOU ENT TO SURF BLM WAS NO	T SERVIC ACE WITH OTIFIED B	E SPUDS A H READY M Y EMAIL OI Daily	20" HOLE ON IX. CAROL E F SPUD ON 1 y Total Total	pth: 0.0 N 10/20/2010 @ DANIELS W/UL 0/20/10 @ 09:0 \$0 \$75,000 Visc	OOGM WAS 0 AM.
MD 0  Formation: Activity at Report Ti  Start End 06:00 06:00  10-19-2010 Ro  DailyCosts: Drilling Cum Costs: Drilling MD 0  Formation:	me: BUILD LO Hrs Activ 24.0 LOCA SET + NOTI NOTI eported By \$0 \$75,000 TVD	CATION  ity Descrition 50%  -/-60° OF 1  FIED BY P  FICATION  TEF	iption  COMPLETE. 4" CONDUCT HONE MESSA S SENT ON 10 RRY CSERE  Com Com	CRAIG'S OR. CEM! AGE AND 1/18/2010.  Apletion apletion	Perf:  ROUSTABOUENT TO SURF BLM WAS NO \$0  \$0  Days	T SERVIC ACE WITH OTIFIED B	EE SPUDS A H READY M Y EMAIL OI Daily Well	20" HOLE ON IX. CAROL E F SPUD ON 1 y Total Total	pth: 0.0 N 10/20/2010 @ DANIELS W/UL 0/20/10 @ 09:0 \$0 \$75,000 Visc	OOGM WAS
MD 0  Formation: Activity at Report Ti Start End 06:00 06:00  10-19-2010 Ro DailyCosts: Drilling Cum Costs: Drilling MD 0  Formation: Activity at Report Ti	me: BUILD LO Hrs Activ 24.0 LOCA SET + NOTI NOTI Ported By \$0 \$75,000 TVD P me: BUILD LO	CATION  city Description 50%  city Of 1  FIED BY P  FICATION  TEF  0  BTD: 0.00  CATION	iption  COMPLETE. 4" CONDUCT HONE MESSA S SENT ON 10 RRY CSERE  Com Com Progress	CRAIG'S OR. CEM! AGE AND 1/18/2010.  Apletion apletion	Perf:  ROUSTABOUENT TO SURF BLM WAS NO \$0  \$0  Days	T SERVIC ACE WITH OTIFIED B	EE SPUDS A H READY M Y EMAIL OI Daily Well	20" HOLE ON IX. CAROL E F SPUD ON 1 y Total Total	pth: 0.0 N 10/20/2010 @ DANIELS W/UL 0/20/10 @ 09:0 \$0 \$75,000 Visc	OOGM WAS
MD 0  Formation: Activity at Report Ti Start End 06:00 06:00  10-19-2010 Ro DailyCosts: Drilling Cum Costs: Drilling MD 0  Formation: Activity at Report Ti	me: BUILD LO Hrs Activ 24.0 LOCA SET + NOTI NOTI eported By \$0 \$75,000  TVD  P me: BUILD LO Hrs Activ	CATION  ity Descri ATION 50%  /-60' OF 1 FIED BY P FICATION  TEF  0  BTD: 0.0  CATION  ity Descri	iption  COMPLETE. 4" CONDUCT HONE MESSA S SENT ON 10 RRY CSERE  Com Com Progress	CRAIG'S OR. CEM! AGE AND 1/18/2010.  spletion upletion 0	Perf:  ROUSTABOUENT TO SURF BLM WAS NO  \$0 \$0 Days Perf:	T SERVIC ACE WITH OTIFIED B	EE SPUDS A H READY M Y EMAIL OI Daily Well	20" HOLE ON IX. CAROL E F SPUD ON 1 y Total Total	pth: 0.0 N 10/20/2010 @ DANIELS W/UL 0/20/10 @ 09:0 \$0 \$75,000 Visc	OOGM WAS 0 AM.
MD 0  Formation: Activity at Report Ti Start End 06:00 06:00  10–19–2010 Ro DailyCosts: Drilling Cum Costs: Drilling MD 0  Formation: Activity at Report Ti Start End 06:00 06:00	me: BUILD LO Hrs Activ 24.0 LOCA SET + NOTI NOTI POTENTIAL \$0 \$75,000  TVD P me: BUILD LO Hrs Activ 24.0 LOCA	CATION  ity Descri ATION 50%  -/-60' OF 1 FIED BY P FICATION  TEF  0  BTD: 0.0  CATION  ity Descri ATION COM	complete. 4" COMPLETE. 4" CONDUCT HONE MESSA S SENT ON 10 RRY CSERE Com Com Progress	CRAIG'S OR. CEM! AGE AND 1/18/2010.  spletion upletion 0	Perf:  ROUSTABOUENT TO SURF BLM WAS NO  \$0 \$0 Days Perf:	T SERVIC ACE WITH OTIFIED B	EE SPUDS A H READY M Y EMAIL OI Daily Well	20" HOLE ON IX. CAROL E F SPUD ON 1 y Total Total	pth: 0.0 N 10/20/2010 @ DANIELS W/UL 0/20/10 @ 09:0 \$0 \$75,000 Visc	OOGM WAS 0 AM.
MD 0 Formation: Activity at Report Ti Start End 06:00 06:00  10-19-2010 Ro DailyCosts: Drilling Cum Costs: Drilling MD 0 Formation: Activity at Report Ti Start End 06:00 06:00  10-20-2010 Ro	me: BUILD LO Hrs Activ 24.0 LOCA SET + NOTI NOTI POTENTION  \$0 \$75,000  TVD  P me: BUILD LO Hrs Activ 24.0 LOCA eported By	CATION  ity Descri ATION 50%  -/-60' OF 1 FIED BY P FICATION  TEF  0  BTD: 0.0  CATION  ity Descri ATION COM	iption  COMPLETE. 4" CONDUCT HONE MESSA S SENT ON 10 RRY CSERE  Com Com Progress	CRAIG'S OR. CEMI AGE AND 0/18/2010.  spletion 0	Perf:  ROUSTABOUENT TO SURFELM WAS NOT SURFELD	T SERVIC ACE WITH OTIFIED B	EE SPUDS A H READY M Y EMAIL OI Daily Well MW	20" HOLE OI IX. CAROL E F SPUD ON 1 y Total Total 0.0 PKR Dep	pth: 0.0  N 10/20/2010 @ OANIELS W/UE 0/20/10 @ 09:0  \$0 \$75,000  Visc pth: 0.0	OOGM WAS 0 AM.
MD 0  Formation: Activity at Report Ti Start End 06:00 06:00  10–19–2010 Ro DailyCosts: Drilling MD 0  Formation: Activity at Report Ti Start End 06:00 06:00  10–20–2010 Ro DailyCosts: Drilling	me: BUILD LO Hrs Activ 24.0 LOCA SET + NOTI NOTI POTENTIAL \$0 \$75,000  TVD P me: BUILD LO Hrs Activ 24.0 LOCA	CATION  ity Descri ATION 50%  -/-60' OF 1 FIED BY P FICATION  TEF  0  CATION  ity Descri ATION COM	iption  COMPLETE. 4" CONDUCT HONE MESSAS SENT ON 10 RRY CSERE  Com Com Progress  iption  MPLETE. STAI  RRY CSERE  Com	CRAIG'S OR. CEMI AGE AND 0/18/2010.  spletion 0  RTING CI	Perf:  ROUSTABOUENT TO SURF BLM WAS NO  \$0 \$0 Days Perf:	T SERVIC ACE WITH OTIFIED B	EE SPUDS A H READY M Y EMAIL OI Daily Well MW	20" HOLE ON IX. CAROL E F SPUD ON 1 y Total Total	pth: 0.0 N 10/20/2010 @ DANIELS W/UL 0/20/10 @ 09:0 \$0 \$75,000 Visc	OOGM WAS 0 AM.
MD 0 Formation: Activity at Report Ti Start End 06:00 06:00  10–19–2010 Ro DailyCosts: Drilling MD 0 Formation: Activity at Report Ti Start End 06:00 06:00  10–20–2010 Ro DailyCosts: Drilling	me: BUILD LO Hrs Activ 24.0 LOCA SET + NOTI NOTI POTENTIAL \$0 \$75,000  TVD P me: BUILD LO Hrs Activ 24.0 LOCA eported By \$0	CATION  ity Description 50% c/-60' OF 1 FIED BY P FICATION  O BTD: 0.0 CATION  ity Description COM  TER	iption  COMPLETE. 4" CONDUCT HONE MESSA S SENT ON 10 RRY CSERE  Com Progress  iption  MPLETE. STAIR  RRY CSERE  Com Com Com Com	CRAIG'S OR. CEMI AGE AND 0/18/2010.  upletion 0  RTING CL upletion upletion	Perf:  ROUSTABOUENT TO SURF BLM WAS NO  \$0 \$0 Days Perf:	T SERVIC ACE WITH OTIFIED B	EE SPUDS A H READY M Y EMAIL OI Daily Well MW	20" HOLE ON IX. CAROL E F SPUD ON 1 y Total Total 0.0 PKR Dej	\$0 \$75,000  \$0 \$75,000	OOGM WAS
MD 0 Formation: Activity at Report Ti Start End 06:00 06:00  10-19-2010 Re DailyCosts: Drilling MD 0 Formation: Activity at Report Ti Start End 06:00 06:00  10-20-2010 Re DailyCosts: Drilling Cum Costs: Drilling	me: BUILD LO Hrs Activ 24.0 LOCA SET + NOTI NOTI POTENTIAL STORMAN STO	CATION  ity Description 50% c/-60' OF 1 FIED BY P FICATION  O BTD: 0.0 CATION  ity Description COM  TER	iption  COMPLETE. 4" CONDUCT HONE MESSAS SENT ON 10 RRY CSERE  Com Com Progress  iption  MPLETE. STAL  RRY CSERE  Com Com Progress	CRAIG'S OR. CEMI AGE AND 0/18/2010.  spletion 0  RTING CI	Perf:  ROUSTABOUENT TO SURF BLM WAS NO  \$0 \$0 Days Perf:  COSED LOOP.  \$0 \$0 Days	OT SERVICE  OTIFIED B  O	EE SPUDS A H READY M Y EMAIL OI Daily Well MW	20" HOLE ON IX. CAROL E F SPUD ON 1  y Total  0.0  PKR Dep  y Total  Total  0.0	\$0 \$75,000  \$0 \$75,000  Visc  \$0 \$75,000  Visc  \$0 \$75,000	OOGM WAS 0 AM.
MD 0 Formation: Activity at Report Ti Start End 06:00 06:00  10-19-2010 Ro DailyCosts: Drilling MD 0 Formation: Activity at Report Ti Start End 06:00 06:00  10-20-2010 Ro DailyCosts: Drilling	me: BUILD LO Hrs Activ 24.0 LOCA SET + NOTI NOTI Ported By \$0 \$75,000  TVD  Pme: BUILD LO Hrs Activ 24.0 LOCA Ported By \$0 \$75,000  TVD Prof. Reported By \$0 \$75,000  TVD Prof. Reported By \$0 \$75,000  TVD Prof. Reported By	CATION  ity Description 50% c/-60' OF 1 FIED BY P FICATION.  TEF  0 CATION  cation con  tity Description COM  TEF  60  BTD: 0.0	iption  COMPLETE. 4" CONDUCT HONE MESSAS SENT ON 10 RRY CSERE  Com Com Progress  iption  MPLETE. STAL  RRY CSERE  Com Com Progress	CRAIG'S OR. CEMI AGE AND 0/18/2010.  upletion 0  RTING CL upletion upletion	Perf:  ROUSTABOUENT TO SURF BLM WAS NO  \$0 \$0 Days Perf:	OT SERVICE  OTIFIED B  O	EE SPUDS A H READY M Y EMAIL OI Daily Well MW	20" HOLE ON IX. CAROL E F SPUD ON 1  y Total  0.0  PKR Dep	\$0 \$75,000  \$0 \$75,000  Visc  \$0 \$75,000  Visc  \$0 \$75,000	OOGM WAS

06:00 06:00

24.0 CLOSED LOOP, 30% COMPLETE. – CRAIG'S ROUSTABOUT SPUD A 20" HOLE ON 10/20/10 @ 09:00 HRS, SET 60' OF 14" CONDUCTOR. CEMENT TO SURFACE WITH READY MIX. CAROL DANIELS W/UDOGM WAS NOTIFIED BY PHONE MESSAGE AND BLM WAS NOTIFIED BY EMAIL OF SPUD ON 10/18/10 @ 1:46 PM.

10-21-2010	Reported B	Ву Т.	ERRY CSERE							
DailyCosts: Drill	ing \$0	)	Com	pletion	\$0		Daily	Total	\$0	
<b>Cum Costs: Drill</b>	<b>ing</b> \$7	75,000	Com	pletion	\$0		Well 7	Total	\$75,000	
<b>MD</b> 60	TVD	60	Progress	0	Days	0	MW	0.0	Visc	0.0
Formation:		<b>PBTD</b> : (	0.0		Perf:			PKR De	<b>pth</b> : 0.0	
Activity at Repor	t Time: BUIL	D LOCATION								
Start End 06:00 06:		Activity Desc	eription P 80% COMPLE	ere						
10-22-2010	Reported B		ERRY CSERE	5115.						
DailyCosts: Drill	ing \$0	)	Com	pletion	\$0		Daily	Total	\$0	
Cum Costs: Drilling \$75,000			Com	pletion	\$0		Well Total		\$75,000	
<b>MD</b> 60	TVD	60	Progress	0	Days	0	MW	0.0	Visc	0.0
Formation:		<b>PBTD</b> : (	0.0		Perf:		PKR Depth: 0.0			
Activity at Repor	t Time: WOR	Т								
Start End	Hrs	Activity Desc	cription							
06:00 06:0	00 24.0	LOCATION CO	OMPLETE. WOR	RT.						
11-03-2010	Reported B	By B	OBBY LAIN							
DailyCosts: Drill	ing \$2	235,345	Com	pletion	\$0		Daily	Total	\$235,345	
Cum Costs: Drill	<b>ing</b> \$3	310,345	Comple		\$0		Well Total		\$310,345	
					_	0	3.4337	0.0	¥70	0.0
<b>MD</b> 2,7	9 <b>TVD</b>	2,719	Progress	0	Days	U	$\mathbf{MW}$	0.0	Visc	0.0
MD 2,7 Formation:	9 <b>TVD</b>	2,719 <b>PBTD :</b> (	_	0	Days Perf :	U	MW	PKR De		0.0

**Activity at Report Time:** WORT

Start End Hrs Activity Description

06:00 06:00

24.0 MIRU CRAIG'S AIR RIG #2 ON 10/23/2010. DRILLED 12–1/4" HOLE TO 2700' GL (2719' KB). PUMP DRILLED FROM SURFACE TO TD WITH PARTIAL RETURNS. RAN 62 JTS (2691.33') OF 9–5/8", 36.0#, J–55, ST&C CASING WITH HALLIBURTON GUIDE SHOE AND FLOAT COLLAR. 15 CENTRALIZERS SPACED MIDDLE OF SHOE JOINT AND EVERY COLLAR TILL GONE. LANDED @ 2710.33' KB. RAN 200' OF 1" PIPE DOWN BACK SIDE. RDMO CRAIG'S AIR RIG #2.

MIRU HALLIBURTON CEMENTERS. HELD SAFETY MEETING. PRESSURE TESTED LINES AND CEMENT VALVE TO 3500 PSIG. PUMPED 10 BBLS FRESH WATER & 20 BBLS GELLED WATER FLUSH AHEAD OF CEMENT. LEAD: MIXED AND PUMPED 250 SACKS (183 BBLS) OF PREMIUM LEAD CEMENT WITH 0.3% VARSET, 2% CAL—SEAL, AND 2% ECONOLITE. MIXED LEAD CEMENT @ 10.5 PPG WITH YIELD OF 4.1 CF/SX. TAIL: MIXED AND PUMPED 300 SACKS (63 BBLS) OF PREMIUM CEMENT WITH 2% CACL2 MIXED TAIL CEMENT @ 15.6 PPG WITH YIELD OF 1.18 CF/SX. DISPLACED CEMENT WITH 205 BBLS FRESH WATER. BUMPED PLUG WITH 840# @ 13:14 PM ON 11/1/10. FLOAT DID NOT HOLD. SHUT—IN CASING VALVE. BROKE CIRCULATION 5 BBLS INTO FRESH WATER FLUSH. NO CEMENT TO SURFACE. WOC 4 HR 30 MIN.

TOP JOB #1: PUMP DOWN 200' OF 1' PIPE. MIXED & PUMPED 75 SX (16 BBLS) OF PREMIUM CEMENT WITH 2% CACL2. MIXED CEMENT @ 15.8 PPG WITH YIELD OF 1.15 CF/SX. NO RETURNS. WOC 2 HR.

TOP JOB #2: PUMP DOWN 200' OF 1' PIPE. MIXED & PUMPED 100 SX (21 BBLS) OF PREMIUM CEMENT WITH 2% CACL2. MIXED CEMENT @ 15.8 PPG WITH YIELD OF 1.15 CF/SX. NO RETURNS. WOC 4 HR 15 MIN.

TOP JOB #3: PUMP DOWN 200' OF 1' PIPE. MIXED & PUMPED 100 SX (21 BBLS) OF PREMIUM CEMENT WITH 2% CACL2. MIXED CEMENT @ 15.8 PPG WITH YIELD OF 1.15 CF/SX. NO RETURNS. WOC 2 HR 0 MIN.

TOP JOB #4: PUMP DOWN 200' OF 1' PIPE. MIXED & PUMPED 50 SX (10.5 BBLS) OF PREMIUM CEMENT WITH 2% CACL2. MIXED CEMENT @ 15.8 PPG WITH YIELD OF 1.15 CF/SX. HOLE FILLED AND STOOD FULL.

PREPARED LOCATION FOR ROTARY RIG. WORT. WILL DROP FROM REPORT UNTIL FURTHER ACTIVITY.

CRAIG'S RIG #2 TOOK SURVEYS WHILE DRILLING HOLE @ 1500' = 2.00 DEGREE, 2000' = 2.00 DEGREE, AND 2650' = 2.00 DEGREE.

BOBBY LAIN NOTIFIED BLM VIA EMAIL OF THE SURFACE CASING & CEMENT JOB ON 10/30/10 @ 18:30 PM. BOBBY LAIN NOTIFIED CAROL DANIELS WITH UDOGM OF THE SURFACE CASING & CEMENT JOB VIA PHONE ON 10/30/10 @ 17:30 PM.

11-07-20	10 Re	ported I	By DA	VID GREESON	N						
DailyCost	s: Drilling	\$	103,201	Com	pletion	\$0		Dail	y Total	\$103,201	
<b>Cum Costs: Drilling</b>		\$	413,547	Com	pletion	\$0		Well	l Total	\$413,547	
MD	2,890	TVD	2,890	Progress	180	Days	1	MW	9.4	Visc	32.0
Formation	n:		<b>PBTD</b> : 0.	0		Perf:			PKR De	<b>pth:</b> 0.0	
Activity a	t Report Ti	me: DRII	LLING@ 2890'								
Start	End	Hrs	Activity Desc	ription							
06:00	21:00	15.0	MOVE RIG FROM N-80 11.6# LTO FUEL TO THE 11-6-10, FINIS	C PROD. CSG., HOSS 71–33. I	2 JT'S (21 DERRICK	.66') OF 4.5"	HCP-110 1	1.6# LTC M	ARKER JT'S	AND 2280 GL 1	DIESEL
			RIG ON DAYW	ORK @21:00 1	1-6-10.						
21:00	23:30	2.5	PJSM WITH B MANIFOLD, I MINUTES. TES	CILL LINE VAL	VES, UPI	PER & LOWI	ER KELLY	& INSIDE B	OP 250 LOW	7/5000 PSI HI,	
23:30	00:00	0.5	TEST CASING	TO 1500PSI FO	OR 30MIN	. TEST HELI	Э.				
00:00	00:30	0.5	INSTALL WEA	R BUSHING IN	WELLH	EAD.					
00:30	02:00	1.5	HELD SAFETY AND PU BHA		WEATHE	RFORD LD	MACHINE A	AND ALL O	N LOCATION	. RIG UP LD M	MACHINE
02:00	03:00	1.0	DAYLIGHT SA	VINGS TIME. I	FALL BAC	CK ONE HOU	JR.				
02:00	02:30	0.5	INSTALL ROT.	HEAD RUBBE	R, DRIVE	BUSHING A	AND TORQU	JE KELLY.			
02:30	04:00	1.5	DRILL CEMEN WOB, 120 STK		-			IENT AND 1	1' OF NEW H	IOLE TO 2730'	'. 10–16K
04:00	04:30	0.5	PERFORM F.I.	Γ TEST TO 2201	PSI W/ 9.2	MUD WT. =	10.7EMW.				
04:30	06:00	1.5	DRILL F/2730' SPP 1850 PSI, I	, ,				B 12–18. PU	MP 454 GPM	@ 120 SPM O	N #1 PUMP.
			NO ACCIDENT	S OR INCIDEN	NTS REPC	RTED.					
			SAFETY MEET	TINGS TOPICS:	MOVINO	G RIG/ PU BI	łA.				
			CHECK COM I	ORILLING; FU	NCTIONE	D BOP.					
			FUEL RECEIV	ED 4500 GL. O	N HAND	5270 GL. US	ED 560 GAL				
			NOTIFIED BLM	M AND UDOGN	M OF BOP	TEST ON H	OSS 71–33,	11–4–10.			

SPUD 7 7/8" HOLE @ 04:30 HRS, ON 11/7/10.

06:00

00.00											
11-08-20	)10 R	eported l	By DA	VID GREESO	N						
DailyCost	ts: Drilling	\$	25,902	Con	npletion	\$0		Dail	y Total	\$25,902	
Cum Cost	ts: Drilling	\$	439,449	Con	npletion	\$0		Well	Total	\$439,449	
MD	5,548	TVD	5,548	Progress	2,658	Days	2	MW	9.7	Visc	34.0
ormatio	n:		<b>PBTD</b> : 0.	0		Perf:			PKR De	<b>pth:</b> 0.0	
activity a	t Report Ti	me: DRII	LLING @ 5548'								
Start	End	Hrs	Activity Descr	ription							
06:00	06:30	0.5	DRILL F/2890' SPP 1850 PSI, I	, ,				2–18. PUM	P 454 GPM @	2 120 SPM ON #	‡1 PUMP.
06:30	07:00	0.5	SURVEY @283	4', 0.37 DEGR	EE.						
07:00	14:30	7.5	DRILL F/2916' PUMP. SPP 180	*	*				JMP 454 GPN	M @ 120 SPM C	ON #1
14:30	15:00	0.5	SURVEY @383	4', 1.87 DEGR	EE.						
15:00	18:30	3.5	DRILL F/3917' SPP 1900 PSI, I	`	<i>'</i>					@ 120 SPM ON	I #1 PUMI
18:30	19:00	0.5	SERVICE RIG. AUTO DRILLE		ORAW WO	RKS. CHANG	E OUT DR	UM ENCOD	ER ON DRA	W WORKS FO	R PASON
19:00	23:00	4.0	DRILL F/4389' SPP 2200 PSI, I	*	*					@ 120 SPM ON	I #1 PUMI
23:00	23:30	0.5	SURVEY @481	1', 2.51 DEGR	EE.						
			SPP 2400 PSI, I				Y OIL SHA	LE. WASAT	СН 5,018'.		
			SPP 2400 PSI, I NO ACCIDENT SAFETY MEET CHECK COM I FUEL RECEIV	S OR INCIDE TINGS TOPICS DRILLING; FU	NTS REPO : HAND PI NCTIONE	RTED. LACEMENT/S D BOP. BOP I	STEAM LIN DRILL 90 S	IES. EC.	СН 5,018'.		
1-09-20	)10 R	eported l	NO ACCIDENT SAFETY MEET CHECK COM I FUEL RECEIVE	S OR INCIDE TINGS TOPICS DRILLING; FU	NTS REPO : HAND PI NCTIONE IN HAND S	RTED. LACEMENT/S D BOP. BOP I	STEAM LIN DRILL 90 S	IES. EC.	CH 5,018'.		
	010 Ro	-	NO ACCIDENT SAFETY MEET CHECK COM I FUEL RECEIVE	S OR INCIDED TINGS TOPICS DRILLING; FU ED 4500 GL. O AVID GREESO	NTS REPO : HAND PI NCTIONE IN HAND S	RTED. LACEMENT/S D BOP. BOP I	STEAM LIN DRILL 90 S	IES. EC.	v <b>Total</b>	\$25,911	
<b>DailyCost</b>		\$	NO ACCIDENT SAFETY MEET CHECK COM I FUEL RECEIVE By DA	S OR INCIDER TINGS TOPICS DRILLING; FU ED 4500 GL. O ED GREESO Con	NTS REPO : HAND PI NCTIONE IN HAND 9	RTED. LACEMENT/S D BOP. BOP I 0576 GL. USE	STEAM LIN DRILL 90 S	JES. EC.  Dail		\$25,911 \$465,361	
DailyCost Cum Cost	ts: Drilling	\$	NO ACCIDENT SAFETY MEET CHECK COM I FUEL RECEIVE By DA 25,911	S OR INCIDER TINGS TOPICS DRILLING; FU ED 4500 GL. O ED GREESO Con	NTS REPO : HAND PI NCTIONE IN HAND S N npletion	RTED. LACEMENT/S D BOP. BOP I 0576 GL. USEI \$0	STEAM LIN DRILL 90 S	JES. EC.  Dail	y Total		38.0
eailyCost tum Cost ID	ts: Drilling ts: Drilling 7,010	\$	NO ACCIDENT SAFETY MEET CHECK COM I FUEL RECEIVE By DA 25,911 465,361	S OR INCIDER TINGS TOPICS ORILLING; FU ED 4500 GL. O AVID GREESO Con Con Progress	NTS REPO : HAND PI NCTIONE IN HAND S N npletion npletion	RTED. LACEMENT/S D BOP. BOP I D576 GL. USE \$0 \$0	STEAM LIN DRILL 90 S D 1194 GAI	JES. EC.  Daily Well	y Total Total	\$465,361 <b>Visc</b>	38.0
DailyCost Cum Cost ID Cormation	ts: Drilling ts: Drilling 7,010 n:	\$ \$ <b>TVD</b>	NO ACCIDENT SAFETY MEET CHECK COM I FUEL RECEIVE By DA 25,911 465,361 7,010	S OR INCIDER TINGS TOPICS ORILLING; FU ED 4500 GL. O AVID GREESO Con Con Progress	NTS REPO : HAND PI NCTIONE IN HAND S N npletion npletion	RTED. LACEMENT/S D BOP. BOP I 0576 GL. USE \$0 \$0 Days	STEAM LIN DRILL 90 S D 1194 GAI	JES. EC.  Daily Well	y Total Total	\$465,361 <b>Visc</b>	38.0
DailyCost Cum Cost AD Cormation Activity a	ts: Drilling ts: Drilling 7,010 n:	\$ \$ <b>TVD</b>	NO ACCIDENT SAFETY MEET CHECK COM I FUEL RECEIVE By DA 25,911 465,361 7,010 PBTD: 0. LLING @ 7010'	S OR INCIDED TINGS TOPICS DRILLING; FU ED 4500 GL. O AVID GREESO Con Con Progress	NTS REPO : HAND PI NCTIONE IN HAND S N npletion npletion	RTED. LACEMENT/S D BOP. BOP I 0576 GL. USE \$0 \$0 Days	STEAM LIN DRILL 90 S D 1194 GAI	JES. EC.  Daily Well	y Total Total	\$465,361 <b>Visc</b>	38.0
DailyCost Cum Cost ID Cormation Activity a	ts: Drilling ts: Drilling 7,010 n: t Report Ti	\$ TVD me: DRII	NO ACCIDENT SAFETY MEET CHECK COM I FUEL RECEIVE By DA 25,911 465,361 7,010 PBTD: 0.	S OR INCIDENTINGS TOPICS ORILLING; FU ED 4500 GL. O  ED 4500 GC. Con  Con  Progress 0  ription  TO 6138' (590'	NTS REPO : HAND PI NCTIONE IN HAND 9 N npletion 1,462	RTED. LACEMENT/S D BOP. BOP I 0576 GL. USE \$0 \$0 Days Perf:	STEAM LIN DRILL 90 S D 1194 GAI 3	Daily Well MW	y Total Total 10.4 PKR Dep	\$465,361 <b>Visc</b> <b>pth:</b> 0.0	
PailyCost Cum Cost ID Cormation Activity a	ts: Drilling ts: Drilling 7,010 n: t Report Ti End	\$ TVD me: DRII	NO ACCIDENT SAFETY MEET CHECK COM I FUEL RECEIVE By DA 25,911 465,361 7,010 PBTD: 0. LLING @ 7010' Activity Descended	S OR INCIDER TINGS TOPICS DRILLING; FU ED 4500 GL. O AVID GREESO Con Progress 0 ription TO 6138' (590' DIFF 100/400. I	NTS REPO : HAND PI NCTIONE IN HAND 9 N npletion 1,462	RTED. LACEMENT/S D BOP. BOP I 0576 GL. USE \$0 \$0 Days Perf:	STEAM LIN DRILL 90 S D 1194 GAI 3	Daily Well MW	y Total Total 10.4 PKR Dep	\$465,361 <b>Visc</b> <b>pth:</b> 0.0	
ailyCost tum Cost ID ormation ctivity a tart	ts: Drilling ts: Drilling 7,010 n: t Report Ti End	\$ TVD  me: DRII  Hrs 7.5	NO ACCIDENT SAFETY MEET CHECK COM I FUEL RECEIVE By DA 25,911 465,361 7,010 PBTD: 0. LLING @ 7010' Activity Desci	S OR INCIDED TINGS TOPICS ORILLING; FU ED 4500 GL. ON OTHER CONTROL OF TOPICS OF THE T	NTS REPO : HAND PI NCTIONE IN HAND 9 N npletion 1,462 ) 79' FPH. DRILLING	RTED. LACEMENT/S D BOP. BOP I 0576 GL. USE \$0 \$0 <b>Days Perf:</b> 50 RPM + 73:	STEAM LIN DRILL 90 S D 1194 GAI 3 3 MM. WOB ,018', CHA	IES. EC. Daily Well MW	y Total Total 10.4 PKR Dep	\$465,361 <b>Visc</b> <b>pth:</b> 0.0	
eailyCost Cum Cost On Cormation Activity a tart 06:00	ts: Drilling 7,010 n: tt Report Ti End 13:30	\$ TVD  me: DRII  Hrs  7.5	NO ACCIDENT SAFETY MEET CHECK COM I FUEL RECEIVE By DA 25,911 465,361 7,010 PBTD: 0. LLING @ 7010' Activity Description DRILL F/5548' SPP 2400 PSI, I MUD WT. 9.9 V	Con Con Progress  Official Control Con	NTS REPO : HAND PI NCTIONE IN HAND 9 N Inpletion 1,462  ) 79' FPH. DRILLING DRAW WO ) 55' FPH.	RTED. LACEMENT/S D BOP. BOP I D576 GL. USE  \$0 \$0 Days Perf:  50 RPM + 73: WASATCH 5  RKS AND BL 50 RPM + 70:	STEAM LINDRILL 90 S D 1194 GAI  3 MM. WOB ,018', CHA OCKS. CHI	Daily Well MW  18–22. PUM PITA WELL ECK COM E 18–22. PUM	y <b>Total</b> 10.4 PKR Dep PKR Dep P 454 GPM @ S 5,621'.	\$465,361 Visc pth: 0.0	#1 PUMP
Cum Cost MD Formation Activity a Start 06:00	ts: Drilling 7,010 n: tt Report Ti End 13:30	\$ TVD  me: DRII  Hrs  7.5	NO ACCIDENT SAFETY MEET CHECK COM I FUEL RECEIVE By DA 25,911 465,361 7,010 PBTD: 0. LLING @ 7010' Activity Descention SPP 2400 PSI, I MUD WT. 9.9 V SERVICE RIG. DRILL F/6138' SPP 2600 PSI, I	Con Con Progress  Official Control Con	NTS REPO : HAND PI NCTIONE IN HAND 9 N Inpletion 1,462  ) 79' FPH. DRILLING DRAW WO ) 55' FPH.	RTED. LACEMENT/S D BOP. BOP I D576 GL. USE  \$0 \$0 Days Perf:  50 RPM + 73: WASATCH 5  RKS AND BL 50 RPM + 70:	STEAM LINDRILL 90 S D 1194 GAI  3 MM. WOB ,018', CHA OCKS. CHI	Daily Well MW  18–22. PUM PITA WELL ECK COM E 18–22. PUM	y <b>Total</b> 10.4 PKR Dep PKR Dep P 454 GPM @ S 5,621'.	\$465,361 Visc pth: 0.0	#1 PUMP
DailyCost Cum Cost MD Formation Activity a Start 06:00	ts: Drilling 7,010 n: tt Report Ti End 13:30	\$ TVD  me: DRII  Hrs  7.5	NO ACCIDENT SAFETY MEET CHECK COM I FUEL RECEIVE By DA 25,911 465,361 7,010 PBTD: 0. LLING @ 7010' Activity Descention SPP 2400 PSI, I MUD WT. 9.9 V SERVICE RIG. DRILL F/6138' SPP 2600 PSI, I	S OR INCIDER TINGS TOPICS ORILLING; FU ED 4500 GL. O AVID GREESO Con Progress 0 ription TO 6138' (590' DIFF 100/400. I TIS 36. LUBRICATE I TO 7010' (872' DIFF 150/400. I VIS. 38.	NTS REPO : HAND PI NCTIONE IN HAND 9 N npletion 1,462 ) 79' FPH. DRILLING DRAW WO ) 55' FPH. DRILLING	RTED. LACEMENT/S D BOP. BOP I D576 GL. USE  \$0 \$0  Days Perf:  50 RPM + 73 3  WASATCH 5  RKS AND BL 50 RPM + 70 1  BUCK CANY	STEAM LINDRILL 90 S D 1194 GAI  3 MM. WOB ,018', CHA OCKS. CHI	Daily Well MW  18–22. PUM PITA WELL ECK COM E 18–22. PUM	y <b>Total</b> 10.4 PKR Dep PKR Dep P 454 GPM @ S 5,621'.	\$465,361 Visc pth: 0.0	#1 PUMP
DailyCost Cum Cost AD Cormation Activity a Start 06:00	ts: Drilling 7,010 n: tt Report Ti End 13:30	\$ TVD  me: DRII  Hrs  7.5	NO ACCIDENT SAFETY MEET CHECK COM I FUEL RECEIVE By DA 25,911 465,361 7,010 PBTD: 0. LLING @ 7010' Activity Desci DRILL F/5548' SPP 2400 PSI, I MUD WT. 9.9 V SERVICE RIG. DRILL F/6138' SPP 2600 PSI, I MUD WT. 10.4	S OR INCIDENTINGS TOPICS ORILLING; FU ED 4500 GL. O  VID GREESO  Con Progress 0  ription TO 6138' (590' OFF 100/400. I IS 36. LUBRICATE I TO 7010' (872' OFF 150/400. I VIS. 38.	NTS REPO : HAND PI NCTIONE IN HAND S  N npletion 1,462  ) 79' FPH. DRILLING  DRAW WO ) 55' FPH. DRILLING	RTED. LACEMENT/S D BOP. BOP I D576 GL. USE \$0 \$0 Days Perf: 50 RPM + 73 3 E WASATCH 5 RKS AND BL 50 RPM + 70 3 E BUCK CANS	STEAM LINDRILL 90 S D 1194 GAI  3 MM. WOB ,018', CHA OCKS. CHI MM. WOB YON 6300',	Daily Well MW  18–22. PUM PITA WELL  ECK COM I 18–22. PUM NORTH HO	y <b>Total</b> 10.4 PKR Dep PKR Dep P 454 GPM @ S 5,621'.	\$465,361 <b>Visc</b> <b>pth:</b> 0.0	#1 PUMP

FUEL ON	HAND	7695	GL.	USED	1881	GAL.

		I	FUEL ON HAN	ND 7695 GL. U	SED 1881 (	GAL.					
11-10-20	10 Re	eported B	<b>y</b> D.	AVID GREESC	N						
DailyCost	ts: Drilling	\$28	8,203	Cor	npletion	\$6,492		Daily	y Total	\$34,695	
Cum Cost	ts: Drilling	\$49	93,564	Con	npletion	\$6,492		Well	Total	\$500,056	
MD	8,200	TVD	8,200	Progress	1,190	Days	4	MW	11.0	Visc	38.0
Formation	n:		<b>PBTD</b> : 0	0.0		Perf:			PKR De <sub>l</sub>	oth: 0.0	
Activity a	t Report Ti	me: DRILI	LING @ 8200'								
Start	End	Hrs A	Activity Desc	cription							
06:00	13:00			' TO 7355' (345 DIFF 150/400. I	,					115 SPM ON	#1 PUMP.
		ľ	MUD WT. 10.5	5 VIS. 36.							
13:00	13:30	0.5 \$	SERVICE RIG.	. LUBRICATE	DRAW WO	RKS AND BLO	OCKS.				
13:30	06:00			'TO 8200' (845 DIFF 150/400. I	*					110 SPM ON	#2 PUMP.
		N	MUD WT. 11.0	) VIS. 38.							
				TS OR INCIDE							
				TING TOPICS:			BASKET.				
				DRILLING; FU							
				) SEC. BOILER							
		ŀ		ND 5700 GL. U		з̀AL.					
11-11-20	10 Re	eported By	y D	AVID GREESC	Ν						
DailyCost	ts: Drilling	\$30	0,300	Cor	npletion	\$543		Daily	y Total	\$30,843	
Cum Cost	ts: Drilling	\$52	23,864	Cor	npletion	\$7,035		Well	Total	\$530,900	
MD	9,100	TVD	9,100	Progress	900	Days	5	MW	11.4	Visc	39.0
Formation	n:		<b>PBTD</b> : 0	0.0		Perf:			PKR De <sub>l</sub>	oth: 0.0	
Activity a	t Report Ti	me: DRILI	LING @ 9100'	•							
Start	End	Hrs A	Activity Desc	cription							
06:00	10:00			'TO 8349 (149' DIFF 100/300. I	*					120 SPM ON	#1 PUMP.
			MUD WT. 11.2								
10:00	10:30			. LUBRICATE							
10:30	06:00	\$	SPP 2600 PSI, 1	'TO 9100' (751 DIFF 100/300. I	*					20 SPM ON	#1 PUMP.
		N	MUD WT. 11.4	4 VIS. 39.							
				TS OR INCIDE							
		S	SAFETY MEE	TINGS: SHUT	TING IN BO	OILER /SLIPS	& FALLS.				
		(	CHECK COM	DRILLING; FU	INCTIONE	D BOP.					
		I	BOP DRILL 90	) SEC. BOILER	18 HOURS	S.					
		I	FUEL ON HAN	ND 3648 GL. U	SED 2050 C	GAL.					
11-12-20	10 Re	eported By	<b>y</b> D.	AVID GREESC	N						
DailyCost	s Drilling	0.5									
	o. Diming	\$3.	1,492	Cor	npletion	\$0		Daily	y Total	\$51,492	

MD	9,600	TVD	9,600	Progress	500	Days	6	MW	11.5	Visc	39.0
Formation	ı:		<b>PBTD</b> : 0.	0		Perf:			PKR Dep	<b>th:</b> 0.0	
Activity at	Report Ti	me: DRII	LLING @ 9600'								
Start	End	Hrs	Activity Descr	ription							
06:00	11:30	5.5	DRILL F/9100' SPP 2600 PSI, D	,	*					120 SPM ON	N #1 PUMP.
			MUD WT. 11.4	VIS. 39.							
11:30	12:00	0.5	SERVICE RIG.	FUNCTION C	OM.						
12:00	13:00	1.0	DRILL F/9259' SPP 2600 PSI, D	` '						120 SPM ON	#1 PUMP.
			MUD WT. 11.4	VIS. 39.; PUM	IP HIGH-	VIS. SWEEP E	BEFORE TO	OH.			
13:00	18:00	5.0	TRIP OUT OF I	HOLE. TIGHT	SPOT @58	311'; 5781'; 5,3	312'; 4,938;	4,845'. 20-4	0K DRAG UP	, FREE DOW	N.
			LD ROLLER RI	EAMERS AND	BIT #1. P	U SECURITY	FX65M W/	6-13 JETS 1	FOR BIT#2.		
18:00	23:00	5.0	TRIP IN THE H			IT #2. WASH I	BRIDGE @	6,075'. TIGI	HT SPOTS @ 6	5924'; 8750';	AND 8890'.
23:00	00:00	1.0	WASH AND RE	EAM F/8890' To	O 9290'.						
00:00	06:00	6.0	DRILL F/9290' SPP 2600 PSI, E HIGH– VIS. SW	DIFF 100/300. I	RILLING	: LOWER PRI					
			SAFETY MEET	INGS: MIXIN	G CHEMIO	CALS/LD REA	AMERS.				
			CHECK COM I								
			FUNCTIONED				HOURS.				
			FUEL RECIEVI								
			HALLIBURTON	N BULK TRUC	CK & TRAI	LER TIPPED	OVER WHI	EN ENTERII	NG LOCATIO	N ROAD, NO	INJURIES
			SUSTAINED.								
11-13-201	10 Re	ported l	By DA	VID GREESO	N						
DailyCosts	s: Drilling	\$	31,314	Con	npletion	\$106,406		Daily	y Total	\$137,720	
Cum Cost	s: Drilling	\$	606,672	Con	npletion	\$113,441		Well	Total	\$720,113	
MD	9,700	TVD	9,700	Progress	100	Days	7	MW	11.6	Visc	39.0
Formation	ı:		<b>PBTD</b> : 0.	0		Perf:			PKR Dep	<b>th:</b> 0.0	
Activity at	Report Ti	me: CEM	MENTING PROD	UCTION CSG							
Start	End	Hrs	Activity Descr	ription							
06:00	07:30	1.5	DRILL F/9600' SPP 2600 PSI, E SMALL AMOU	TO 9681' (81') DIFF 100/300. I	ORILLING	: SEGO 9,503'	. MUD WT				
07:30	08:00	0.5	SERVICE RIG.								
08:00	08:30	0.5	DRILL F/9681' SPP 2600 PSI, E SMALL AMOU	DIFF 100/300. I	ORILLING	: SEGO 9,503	. MUD WT	. 11.6 VIS. 3	9.; PUMP HIG	H– VIS. SWI	
08:30	09:30	1.0	CIRCULATE B	EFORE SHOR	Γ TRIP. WA	AIT FOR RETU	URNING SV	VEEP FOR I	BOTTOMS UP		
09:30	10:30	1.0	SHORT TRIP 10	O STANDS. NO	TIGHT S	POTS.					
10:30	11:30	1.0	CIRCULATE BO MEETING W/ A				ATHERFOR	D TRS LD I	MACHINE AN	D HELD SAI	FETY
11:30	12:00	0.5	DROP SURVEY BACK.	(3.01 DEGRE	EE @ 9,632	') AND WATC	H FOR FLO	W. NO FLO	W, PUMP DR	YJOB SLUG	AND KELLY
12:00	18:00	6.0	LD DRILL PIPE	E AND BHA. T	IGHT SPO	TS @ 4689' A	ND F/8368'	TO 8398'. B	REAK KELLY	Y.	

		**CASING POINT @ 12:00, 11–12–10.
18:00	18:30	0.5 PULL WEAR BUSHING FROM WELLHEAD W/ DP.
18:30	19:30	1.0 RU WEATHERFORD CASING TOOLS AND HELD SAFETY MEETING WITH ALL ON LOCATION.
19:30	02:00	6.5 HELD SAFETY MEETING W/RIG CREWS & WEATHERFORD TRS CASING CREW. RU CASING TOOLS & RAN A TOTAL OF 240 JTS 4 1/2", 11.6#, N–80, LTC CASING AS FOLLOWS & LANDED FLOAT SHOE @ 9,697.69', 1 JT. CASING, FLOAT COLLAR W/LATCH DOWN ASSEMBLY TOP @ 9654.97'; 56 JTS TO MARKER JOINT (21.62') @ 7,387.94'; 71 JT.'S CASING TO SECOND MARKER JOINT (19.15') @ 4,548.66' AND 112 JT'S 4.5" N–80 CASING TO 2 – 4.5" P–110 11.6# PUP JT'S (10.89' & 10.76'). BEFORE CASING MANDREL HANGER (6.00'). RAN 3 TURBULIZERS, 1 – 5' ABOVE SHOE 1 EACH IN MIDDLE OF JTS 2 & 3. RAN 25 CENTRALIZERS STARTING ON JT. #4 AND ON EVERY THIRD JT. UNTIL GONE. TAG BOTTOM W/ JOINT # 241 LAYED IT BACK DOWN. PICKED UP LANDING JOINT AND LANDED CASING W/ 85,000 ON HANGER.
02:00	05:00	3.0 CIRCULATING CASING WHILE RD WEATHERFORD CASERS SERVICE TOOLS. MOVE OUT LD MACHINE AND MOVE IN BADGER VAC-TRUCKS TO CLEAN TANKS. MOBILIZE IN HALLIBURTON CEMENT TRUCKS ARRIVING ON LOCATION AT 03:00 AM. RU HALLIBURTON CEMENTERS AND HARDLINE TO THE FLOOR. SHUT DOWN PUMP AND CHECK FOR FLOW. REPLACE SWEDGE W/ CEMENT HEAD. HELD SAFETY MEETING OVER SAFE PRACTICES W/ HALLIBURTON AND RIG CREW.
05:00	06:00	1.0 TEST PUMP & LINES TO 5000 PSI & CEMENT CASING AS FOLLOWS; 20 BBLS MUD FLUSH, 10 BBLS FRESH WATER, MIX & PUMP 430 SKS.(140 BBLS) HIGHBOND LEAD CEMENT MIXED @ 12.0 PPG, 1.83 Y, 9.82 GAL/SK WATER. PLUS 1350 SKS (351 BBLS.) EXTENDACEM TAIL CEMENT MIXED @ 13.5 PPG, 1.47 Y, 6.98 GAL/SK WATER. PUMPING CEMENT AT REPORT TIME. FULL RETURNS OF MUD WHILE PUMPING.
		NO ACCIDENTS OR INCIDENTS REPORTED.
		SAFETY MEETINGS: RUNNING CASING/CEMENTING.
		CHECK COM DRILLING AND TRIPPING.
		FUNCTIONED BOP. BOP DRILL 90 SEC. BOILER 12 HOURS.
		FUEL ON HAND 3306 GL. USED 1368 GL.
11-14-201	0 Rej	ported By DAVID GREESON

11-14-20	10 K	cporteu 1	y Di	WID GREEDO!	. •						
DailyCost	ts: Drilling	\$2	26,804	Com	pletion	\$58,710		Daily	Total	\$85,514	
Cum Cos	ts: Drilling	\$6	633,476	Com	pletion	\$172,151		Well	Total	\$805,628	
MD	9,700	TVD	9,700	Progress	0	Days	8	MW	0.0	Visc	0.0
Formatio	n:		<b>PBTD</b> : 0	.0		Perf:			PKR De <sub>l</sub>	<b>pth:</b> 0.0	
Activity a	t Report Ti	me: RDR	T/WO COMPLE	ETION							
Start	End	Hrs	<b>Activity Desc</b>	ription							
06:00	07:30		WATER. PLUS	& PUMP 430 SK 1350 SKS (351 I PUMP & LINE R @ 7.0 BPM AV 000 PSI) 2 MIN.	S.(140 BE BBLS.) E ES, LOAD VERAGE, RELEASI	BLS) HIGHBOI XTENDACEM & DROP TOP BUMP PLUG ' ED PRESSURE	ND LEAD ( TAIL CEM PLUG INT W/1500 PSI E, FLOW B.	CEMENT MI MENT MIXEI TO CEMENT I OVER FCP ACK 2.5 BBI	IXED @ 12.0 D @ 13.5 PPC HEAD. DISI OF 2500 PSI LS. RE PRES:	PPG, 1.83 Y, 9 G, 1.47 Y, 6.98 C PLACED WITH @ 4 BPM. HEI SURED UP TO	.82 GAL/SK GAL/SK I 150 BBLS LD 2500 PSI
07:30	08:30		RD HALLIBUF RELEASE HEA			HOLD 2500 PS	SI PRESSU	RE ON CEM	ENTING HE	AD FOR ONE	HOUR.
08:30	09:00	0.5	SET PACK OFF	FRING ON CAS	SING HAN	NGER W/ FMC	TECH HA	ND. TEST T	HE SAME TO	O 5000 PSI.	
09:00	10:00		NIPPLE DOWN OFF LIQUID M								S. HAUL

MOVE RIG FROM THE HOSS 71–33 TO THE HOSS 73–33, 1.4 MILES. TRANSFERRING 6 JT'S (241.68') OF 4.5" N–80 11.6# LTC PROD. CSG..; 1 JT. (5.64') OF 4.5" HCP–110 11.6# LTC MARKER JT'S AND 3306 GL. DIESEL FUEL TO THE HOSS 73–33. DERRICK LAYED OVER AT 12:00 11–13–10. RW JONES TRUCKS BEGIN RIG MOVE AT 10:00 11–13–10.

NO ACCIDENTS OR INCIDENTS REPORTED.

SAFETY MEETINGS: CEMENTING/ RIG MOVE. .

FUEL ON HAND 3306 GL.; BOILER 12 HOURS.

10:00 RELEASE RIG @ 10:00 HRS, 11–13–10.

CASING POINT COST \$633,477

		CA	SING FOIN	1 COS1 50	333,477						
11-17-201	l0 Re	ported By	SE	EARLE							
DailyCosts	s: Drilling	\$0			Completion	\$30,300		Daily	Total	\$30,300	
Cum Costs	s: Drilling	\$633,	476		Completion	\$202,451		Well	<b>Fotal</b>	\$835,928	
MD	9,700	TVD	9,700	Progres	<b>ss</b> 0	Days	9	MW	0.0	Visc	0.0
Formation	:		<b>PBTD</b> : 9	655.0		Perf:			PKR De <sub>l</sub>	<b>pth:</b> 0.0	
Activity at	Report Ti	<b>ne:</b> PREP FC	R FRACS								
Start	End	Hrs Act	tivity Desc	ription							
06:00	06:00		RU SCHLUI WL.	MBERGER	R. LOG WITH R	ST/CBL/CCL/V	DL/GR F	ROM 9545' T	O 890'. EST	CEMENT TOP	@ 2930'.
12-11-201	l0 Re	ported By	M	CCURDY							
DailyCosts	: Drilling	\$0			Completion	\$1,623		Daily	Total	\$1,623	
Cum Costs	s: Drilling	\$633,	476		Completion	\$204,074		Well 7	<b>Fotal</b>	\$837,551	
MD	9,700	TVD	9,700	Progres	<b>ss</b> 0	Days	10	MW	0.0	Visc	0.0
Formation	ı <b>:</b>		<b>PBTD</b> : 9	655.0		Perf:			PKR De <sub>l</sub>	<b>pth:</b> 0.0	

Activity at Report Time: WO COMPLETION

Start End Hrs Activity Description

06:00 06:00 24.0 NU 10M FRAC TREE. PRESSURE TESTED FRAC TREE & CASING TO 6500 PSIG. WO COMPLETION.

12-17-2010 Reported By			M	ICCURDY							
DailyCosts: Dr	illing	\$0		Com	pletion	\$903		Daily	Total	\$903	
Cum Costs: Drilling		\$633,4	176	Com	pletion	\$204,977		Well '	<b>Fotal</b>	\$838,454	
MD 9	,700	TVD	9,700	Progress	0	Days	11	MW	0.0	Visc	0.0
Formation: MESAVERDE PBT		<b>PBTD</b> : 9	0655.0		Perf: 8398'-	9297'		PKR Dep	oth: 0.0		

Activity at Report Time: FRAC STAGE #4

Start End Hrs Activity Description

06:00 06:00 24.0 FRAC TANKS PRE MIXED W/ BIOCIDE (75) @ .05 GAL/M, WSI SCALE INHIBITOR (3730) @ 1 GAL/M.

STAGE 1. MIRU CUTTERS WIRELINE & PERFORATE LPR FROM 8951'–52', 8973'–74', 8990'–91', 9042'–43', 9082', 83', 9100'–01', 9174'–75', 9190'–91', 9254'–55', 9267'–68', 9278'–79', 9296'–97' @ 2 SPF & 180 DEGREE PHASING. RDWL. RU HALLIBURTON, FRAC DOWN CASING W/10 GAL BIOCIDE (AQUAR GA 50), 7427 GAL 16# LINEAR W/9500# 20/40 SAND @ 1–1.5 PPG, 34194 GAL 16# DELTA 200 W/120800# 20/40 SAND @ 2–5 PPG. MTP 5343 PSIG. MTR 50.1 BPM. ATP 4329 PSIG. ATR 48.8 BPM. ISIP 2974 PSIG. RD HALLIBURTON.

STAGE 2. RUWL. SET 6K CFP AT 8900'. PERFORATE MPR FROM 8619'-20', 8628'-29', 8670'-71', 8677'-78', 8703'-04', 8748'-49', 8763'-64', 8771'-72', 8834'-35', 8857'-58', 8871'-72', 8879'-80'@ 2 SPF & 180 DEGREE PHASING. RDWL. RU HALLIBURTON, FRAC DOWN CASING W/10 GAL BIOCIDE (AQUAR GA 50), 48500 GAL 16# DELTA 200 W/153400# 20/40 SAND @ 1–5 PPG. MTP 5899 PSIG. MTR 51.5 BPM. ATP 4889 PSIG. ATR 49.6 BPM. ISIP 3540 PSIG. RD HALLIBURTON.

STAGE 3. RUWL. SET 6K CFP AT 8590'. PERFORATE MPR FROM 8398'-99', 8408'-09', 8435'-36', 8477'-78', 8490'-91', 8501'-02', 8508'-09', 8514'-15', 8541'-42', 8554'-55', 8559'-60', 8569'-70'@ 2 SPF & 180 DEGREE PHASING. RDWL. RU HALLIBURTON, FRAC DOWN CASING W/10 GAL BIOCIDE (AQUAR GA 50), 49074 GAL 16# DELTA 200 W/155500# 20/40 SAND @ 1–5 PPG. MTP 6714 PSIG. MTR 49.7 BPM. ATP 5068 PSIG. ATR 44.1 BPM. ISIP 2270 PSIG. RD HALLIBURTON. SWIFN.

12-18-2010	Re	ported By	N	ICCURDY							
DailyCosts: I	rilling	\$0		Com	pletion	\$387,706		Daily	Total	\$387,706	
Cum Costs: Drilling \$633,47		3,476	Com	pletion	\$592,684		Well	<b>Fotal</b>	\$1,226,160		
MD	9,700	TVD	9,700	Progress	0	Days	12	MW	0.0	Visc	0.0
Formation : 1	MESAVEI	RDE	PBTD:	9655.0		Perf: 5673'-	-9297'		PKR Der	oth: 0.0	

Activity at Report Time: PREP TO MIRUSU FOR POST FRAC CLEAN OUT

#### Start End Hrs Activity Description

06:00 06:00

24.0 STAGE 4. SICP 1613 PSIG. RUWL. SET 6K CFP AT 8368'. PERFORATE MPR FROM 8245'-46', 8255'-56', 8269'-70', 8280'-81', 8284'-85', 8296'-97', 8304'-05', 8311'-12', 8321'-22', 8328'-29', 8340'-41', 8348'-49' @ 3 SPF & 120 DEGREE PHASING. RDWL. RU HALLIBURTON, FRAC DOWN CASING W/10 GAL BIOCIDE (AQUAR GA 50), 8022 GAL 16# LINEAR W/10100# 20/40 SAND @ 1-1.5 PPG, 43404 GAL 16# DELTA 200 W/154200# 20/40 SAND @ 2-5 PPG. MTP 5561 PSIG. MTR 50.9 BPM. ATP 3726 PSIG. ATR 49.2 BPM. ISIP 2100 PSIG. RD HALLIBURTON.

STAGE 5. RUWL. SET 6K CFP AT 8200'. PERFORATE UPR/MPR FROM 7896'-97', 7980'-81', 8012'-13', 8025'-26', 8034'-35', 8045'-46', 8066'-67', 8074'-75', 8117'-18', 8161'-62', 8174'-75', 8182'-83'@ 2 SPF & 180 DEGREE PHASING. RDWL. RU HALLIBURTON, FRAC DOWN CASING W/10 GAL BIOCIDE (AQUAR GA 50), 7390 GAL 16# LINEAR W/9500# 20/40 SAND @ 1-1.5 PPG, 43536 GAL 16# DELTA 200 W/155000# 20/40 SAND @ 2-5 PPG. MTP 6173 PSIG. MTR 50 BPM. ATP 5063 PSIG. ATR 42.1 BPM. ISIP 2405 PSIG. RD HALLIBURTON.

STAGE 6. RUWL. SET 6K CFP AT 7725'. PERFORATE UPR FROM 7469'-71', 7526'-27', 7542'-43', 7549'-50', 7579'-80', 7588'-89', 7609'-10', 7615'-16', 7683'-84', 7693'-94', 7702'-03' @ 2 SPF & 180 DEGREE PHASING. RDWL. RU HALLIBURTON, FRAC DOWN CASING W/10 GAL BIOCIDE (AQUAR GA 50), 7408 GAL 16# LINEAR W/9500# 20/40 SAND @ 1-1.5 PPG, 41611 GAL 16# DELTA 200 W/145700# 20/40 SAND @ 2-5 PPG. MTP 4543 PSIG. MTR 51.7 BPM. ATP 3712 PSIG. ATR 49.6 BPM. ISIP 2470 PSIG. RD HALLIBURTON.

STAGE 7. RUWL. SET 6K CFP AT 7387'. PERFORATE NH FROM 7126'-27', 7147'-48', 7162'-63', 7206'-07', 7212'-13', 7228'-29', 7238'-39', 7259'-60', 7273'-74', 7278'-79', 7295'-96', 7358'-59' @ 2 SPF & 180 DEGREE PHASING. RDWL. RU HALLIBURTON, FRAC DOWN CASING W/10 GAL BIOCIDE (AQUAR GA 50), 7403 GAL 16# LINEAR W/9500# 20/40 SAND @ 1-1.5 PPG, 39227 GAL 16# DELTA 200 W/138700# 20/40 SAND @ 2-5 PPG. MTP 5281 PSIG. MTR 50.4 BPM. ATP 3668 PSIG. ATR 50.1 BPM. ISIP 2300 PSIG. RD HALLIBURTON.

STAGE 8. RUWL. SET 6K CFP AT 7050'. PERFORATE Ba FROM 6659'-60', 6681'-82', 6691'-92', 6698'-99', 6716'-17', 6757'-58', 6799'-800', 6841'-42', 6919'-20', 6947'-48', 6993'-94', 7026'-27' @ 3 SPF & 120 DEGREE PHASING. RDWL. RU HALLIBURTON, FRAC DOWN CASING W/10 GAL BIOCIDE (AQUAR GA 50), 7426 GAL 16# LINEAR W/9600# 20/40 SAND @ 1-1.5 PPG, 20621 GAL 16# DELTA 200 W/66800# 20/40 SAND @ 2-4 PPG. MTP 5331 PSIG. MTR 50.8 BPM. ATP 4053 PSIG. ATR 49.1 BPM. ISIP 2114 PSIG. RD HALLIBURTON.

STAGE 9. RUWL. SET 6K CFP AT 6566'. PERFORATE Ba FROM 6329'-30', 6261'-62', 6408'-09', 6420'-21', 6430'-31', 6449'-50', 6463'-64', 6471'-72', 6518'-19', 6525'-26', 6532'-33', 6539'-40'@ 3 SPF & 120 DEGREE PHASING. RDWL. RU HALLIBURTON, FRAC DOWN CASING W/10 GAL BIOCIDE (AQUAR GA 50), 7429 GAL 16# LINEAR W/9600# 20/40 SAND @ 1-1.5 PPG, 24707 GAL 16# DELTA 200 W/82900# 20/40 SAND @ 2-4 PPG. MTP 5522 PSIG. MTR 50.7 BPM. ATP 3191 PSIG. ATR 50.3 BPM. ISIP 1790 PSIG. RD HALLIBURTON.

STAGE 10. RUWL. SET 6K CFP AT 6260'. PERFORATE Ca FROM 5908'-09', 5921'-22', 6000'-01', 6035'-36', 6075'-76', 6131'-32', 6159'-60', 6174'-75', 6179'-80', 6215'-16', 6225'-26', 6239'-40'@ 3 SPF & 120 DEGREE PHASING. RDWL. RU HALLIBURTON, FRAC DOWN CASING W/10 GAL BIOCIDE (AQUAR GA 50), 6379 GAL 16# LINEAR W/8000# 20/40 SAND @ 1-1.5 PPG, 21536 GAL 16# DELTA 200 W/73100# 20/40 SAND @ 2-4 PPG. MTP 4815 PSIG. MTR 50.6 BPM. ATP 3452 PSIG. ATR 50.3 BPM. ISIP 1775 PSIG. RD HALLIBURTON.

STAGE 11. RUWL. SET 6K CFP AT 5735'. PERFORATE Ca FROM 5673'–75', 5680'82', 5688'–90', 5695'–97', 5707'–09' @ 3 SPF & 120 DEGREE PHASING. RDWL. RU HALLIBURTON, FRAC DOWN CASING W/10 GAL BIOCIDE (AQUAR GA 50), 7404 GAL 16# LINEAR W/9500# 20/40 SAND @ 1–1.5 PPG, 28044 GAL 16# DELTA 200 W/95900# 20/40 SAND @ 2–5 PPG. MTP 5212 PSIG. MTR 50.7 BPM. ATP 3407 PSIG. ATR 49 BPM. ISIP 2470 PSIG. RD HALLIBURTON.

RUWL. SET 6K CBP AT 5575'. BLED WELL TO 0 PSIG. RDMO CUTTERS WIRELINE & HALLIBURTON SERVICES. SDFN.

06:00

12-21-2010	Re	eported By	Н	ISLOP							
DailyCosts: Di	illing	\$0		Con	pletion	\$25,320		Daily	Total	\$25,320	
Cum Costs: Drilling \$633,476		3,476	Com	pletion	\$618,004		Well 7	Total	\$1,251,480		
MD 9	,700	TVD	9,700	Progress	0	Days	13	MW	0.0	Visc	0.0
Formation: MESAVERDE PBTI			<b>PBTD</b> : 9	9655.0		<b>Perf</b> : 5673'-	9297'		PKR Dep	oth: 0.0	

Activity at Report Time: RIH W/MILL & POBS FOR POST FRAC CLEAN OUT

	Start	End	Hrs	Activity	Description
--	-------	-----	-----	----------	-------------

06:00 06:00 24.0 MIRUSU. ND FRAC TREE. NU BOP. PRESSURE TEST BOP & BLIND RAMS TO 3000 PSIG. RIH W/BIT & PUMP OFF SUB TO 5575', RU TO DRILL OUT PLUGS. TEST PIPE RAMS TO 3000 PSIG. SDFN.

12-22-2010	Re	ported B	y H	ISLOP							
DailyCosts: D	rilling	\$0		Con	npletion	\$67,640		Daily	Total	\$67,640	
Cum Costs: Drilling		\$63	33,476	Con	npletion	\$685,644		Well T	<b>Fotal</b>	\$1,319,120	
MD	9,700	TVD	9,700	Progress	0	Days	14	MW	0.0	Visc	0.0
Formation : M	1ESAVEI	RDE	<b>PBTD</b> : 9	9655.0		<b>Perf</b> : 5673'-	9297'		PKR Dep	oth: 0.0	

**Activity at Report Time: FLOW TEST** 

#### Start End Hrs Activity Description

06:00 06:00 24.0 SICP 0 PSIG. CLEANED OUT & DRILLED OUT PLUGS @ 5575', 5735', 6260', 6566', 7050', 7387', 7725', 8200', 8368', 8590', & 8900'. CLEANED OUT TO 9445'. LANDED TUBING @ 7435' KB. ND BOP & NU TREE. PUMPED

OFF BIT & SUB. RDMOSU.

FLOWED 11 HRS. 24/64" CHOKE. FTP 1225 PSIG, CP 1300 PSIG. 66 BFPH. RECOVERED 722 BLW. 11878 BLWTR.

TUBING DETAIL LENGTH

PUMP OFF BIT SUB 0.91'

 $1\ JT\ 2{-}3/8"\ 4.7\#\ N{-}80\ TBG ~~31.43"$ 

XN NIPPLE 1.30'

236 JTS 2-3/8" 4.7# N-80 TBG 7382.32'

BELOW KB 19.00' LANDED @ 7434.96' KB Form 3160-5 (August 2007)

#### **UNITED STATES** DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

RECEIVED

FORM APPROVED OMB NO. 1004-0135 Expires: July 31, 2010

# SEP 1 4 2010 | 5. Lease Serial No.

	NOTICES AND REPO is form for proposals to			20,0	UTU64422							
abandoned we	II. Use form 3160-3 (AP	D) for such p	proposal B	LM	6. If Indian, Allottee	or Tribe Name						
SUBMIT IN TRI	PLICATE - Other instruc	ctions on rev	erse side.		7. If Unit or CA/Agreement, Name and/or N UTU60917G							
1. Type of Well					8. Well Name and No.							
Oil Well Gas Well Ot		HOSS 71-33										
Name of Operator     EOG RESOURCES INC	Contact: E-Mail: MICKENZ	MICKENZIE IE_gates@EO		.сом	9. API Well No. 43-047-39714-0	00-X1						
3a. Address 1060 EAST HIGHWAY 40 VERNAL, UT 84078		3b. Phone No Ph: 453.78	. (include area co 1.9145	ode)	10. Field and Pool, or NATURAL BUT							
4. Location of Well (Footage, Sec., 7	., R., M., or Survey Description	n)			11. County or Parish,	and State						
Sec 33 T8S R23E SWSW 709 40.07394 N Lat, 109.34086 V					UINTAH COUN	ITY, ÚT						
12. CHECK APPI	ROPRIATE BOX(ES) TO	) INDICATE	NATURE O	F NOTICE, RE	EPORT, OR OTHE	R DATA						
TYPE OF SUBMISSION			TYPE	OF ACTION		Well Integrity						
Notice of Intent	☐ Acidize	□ Dee	pen	☐ Producti	on (Start/Resume)	☐ Water Shut-Off						
_	☐ Alter Casing	□ Frac	ture Treat	☐ Reclama	ation	_						
☐ Subsequent Report	☐ Casing Repair	□ New	Construction	Recomplete								
☐ Final Abandonment Notice	Change Plans	□ Plug	and Abandon	☐ Tempora	arily Abandon	Change to Original PD						
	Convert to Injection	□ Plug	Back	☐ Water D	isposal	12						
following completion of the involved testing has been completed. Final A determined that the site is ready for f EOG Resources, Inc. respects	bandonment Notices shall be fi final inspection.)	the reference  TECE  JAN 2	requirements, in	cluding reclamation	on, have been complete	LD OFFICE SEP 2 2 2010						
14. I hereby certify that the foregoing is	Electronic Submission #	92836 verified RESOURCES	by the BLM W	ell Information e Vernal	System							
Name (Printed/Typed) MICKENZ		INC, sent to the Vernal AL JENKINS on 09/15/2010 (10GXJ4869SE) Title OPERATIONS CLERK										
			<u> </u>	OTTIONO OLL.								
Signature (Electronic S	,		Date 09/14									
	THIS SPACE FO	R FEDERA										
Approved By	X		Act Title L	ing Assistant Fi ands & Mineral	eld Manager Resources	NUV 1 9 ZI Date						
Conditions of approval, if any, are attache ertify that the applicant holds legal or equivalent would entitle the applicant to condi-	attable title to those rights in the	Office VERNAL FIELD OFFICE										

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\*

### Revisions to Operator-Submitted EC Data for Sundry Notice #92836

**Operator Submitted** 

**BLM Revised (AFMSS)** 

Sundry Type:

OTHER

NOI

Lease:

UTU64422

Operator:

Agreement:

EOG RESOURCES, INC. 1060 EAST HIGHWAY 40 VERNAL, UT 84078 Ph: 453-789-0790

Admin Contact:

MICKENZIE GATES **OPERATIONS CLERK** 

E-Mail: MICKENZIE\_GATES@EOGRESOURCES.COM

Ph: 453-781-9145

Tech Contact:

MICKENZIE GATES
OPERATIONS CLERK
E-Mail: MICKENZIE\_GATES@EOGRESOURCES.COM

Ph: 453-781-9145

Location:

State: County: Field/Pool:

**ÜİNTAH** 

NATURAL BUTTES

Well/Facility:

HOSS 71-33 Sec 33 T8S R23E SWSW 709FSL 190FWL 40.07394 N Lat, 109.34086 W Lon

APDCH NOI

UTU64422

UTU60917G

EOG RESOURCES INC 1060 EAST HIGHWAY 40 VERNAL, UT 84078 Ph: 435.781.9111

MICKENZIE GATES
OPERATIONS CLERK
E-Mail: MICKENZIE\_gates@EOGRESOURCES.COM

Ph: 453.781.9145

MICKENZIE GATES
OPERATIONS CLERK
E-Mail: MICKENZIE\_gates@EOGRESOURCES.COM

Ph: 453.781.9145

**UINTAH** 

NATURAL BUTTES

Sec 33 T8S R23E SWSW 709FSL 190FWL

40.07394 N Lat, 109.34086 W Lon

## **CONDITIONS OF APPROVAL**

## EOG Resources, Inc.

### Notice of Intent APD Extension

Lease:

UTU-64422

Well:

Hoss 71-33

Location:

SWSW Sec 33-T8S-R23E

An extension for the referenced APD is granted with the following conditions:

- 1. The extension and APD shall expire on 8/7/11.
- 2. No other extension shall be granted.

If you have any other questions concerning this matter, please contact Carey Doyle of this office at (435) 781-3406

### Revised from previous submission dated 1/28/2011. Please see item #32.

Form 3160-4
(August 2007)

# UNITED STATES

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

(August 2007) DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT										OMB No. 1004-0137 Expires: July 31, 2010					
47	WELL	COMPL	ETION (	OR R	ECO	MPLE	TION R	EPORT	AND I	LOG			ease Serial JTU64422		
la. Type o	of Well	<b>]</b> Oil Well	<b>⊠</b> Gas	Well		Dry [	Other					6. It	Indian, Al	lottee or	Tribe Name
b. Type of Completion New Well Work Over Deepen Plug Back Diff. Resvr. Other										7. U	nit or CA	Agreeme	ent Name and No.		
EOG RESOURCES, INC. E-Mail: MICKENZIE_GATES@EOGRESOURCES.COM												ease Name IOSS 71-3		il No.	
3. Address	VERNAL	, UT 840	78				Pi	. Phone N n: 453-78	1-9145	e area co	de)	9. A	PI Well No	),	43-047-39714
4. Location	n of Well (Re	eport locat	ion clearly a	nd in a	ccorda	nce with I	Federal re	quirements	s)*			10,	Field and P	ool, or I	Exploratory
At surface SWSW 709FSL 190FWL 40.07394 N Lat, 109.34086 W Lon  At top prod interval reported below SWSW 709FSL 190FWL 40.07394 N Lat, 109.34086 W Lon										11.	11. Sec., T., R., M., or Block and Survey or Area Sec 33 T8S R23E Mer SLB				
	prod interval I depth SW								109.3408	36 W Loi	1	12.	12. County or Parish UNTAH UT		
14. Date S 10/20/2	pudded		15. D	ate T.L 1/12/20	). Read		0.01000	16. Date	Complet A 🛭 2/2010	ted Ready t	o Prod.	17. Elevations (DF, KB, RT, GL)* 4973 GL			
18, Total I	Depth:	MD TVD	9700		19.	Plug Bac	k T.D.:	MD TVD		355	20. De	pth Bri	dge Plug S		MD IVD
RST/C	Electric & Otl BL/CCL/VD	L/GR		,		opy of eac	ch)			W	as well core as DST run rectional St	?	🛛 No	☐ Yes	(Submit analysis) (Submit analysis) (Submit analysis)
23. Casing a	nd Liner Rec	ord (Repo	rt all string:	1		I management	er Constant		l some	1/1000 - W	-	590 × 840			
Hole Size	e Size Size/Grade Wt. (#/ft.) To			\$2: 04.0000000 Feb.		Cementer Depth	A22 200 200 200 200 200 200 200 200 200			Slurry Vol. (BBL)		Тор*	Amount Pulled		
12.250	1	625 J-55		36.0 271			-			875			0		
7.875	7.875 4.500 N-80		11.6			96	398			178				2930	
24 Tubina	D1														
24. Tubing Size	Depth Set (N	MD) Pa	acker Depth	(MD)	Si	ize D	epth Set (	MD) P	acker De	pth (MD	Size	De	pth Set (M	D) [ 1	Packer Depth (MD)
2.375		7435													
25. Produci	ing Intervals						26. Perfor	ration Reco	ord						
White control their case	ormation		Тор		Во	ttom	Perforated Interval Size					No. Holes Perf.		Perf. Status	
TressVI	CH/MESAVE	ERDE		5673 9297				7469 TO 9297						MESAVERDE	
B)								5673 TO 7159						WASA	TCH
D)		_													
	racture, Treat	tment, Cen	nent Squeez	e, Etc.											
	Depth Interve								mount and	d Type o	f Material				
		CONTRACTOR CONTRACTOR	297   290,626   59   170,226												
	50	70.107	109 110,220	, GALO	Or di	LLLLD VV	VIEW & SC	00,000# Z0/	40 OAND						
28. Product	ion - Interval	A													
Date First	Test	Hours	Test	Oil		Gas	Water	Oil Gr		Gas		Producti	on Method		
Produced 12/22/2010	Date 01/02/2011	Tested 24	Production	BBL 46		MCF 718.0	BBL 499.	0 Соп.	API	Gra	vity	FLOWS FROM WELL		M WELL	
Choke Size		Csg. Press.	24 Hr. Rate	Oil BBL		Gas MCF	Water BBL	Gas:O Ratio	il	We	ll Status	LONG THOM WELL			
24/64	SI Intomio	1400.0		46	6	718	499	,			PGW				
28a. Produc	tion - Interva	Hours	Test	Ой	_	Goo	Two	03.0	nedte:	I.o.		D 1	- M.d. 1		
Produced	Date	Tested	Production	Oil BBL		Gas MCF	Water BBL	Oil Gr Corr.		Gas Gra	vity	Producti	on Method		
Choke	Tbg. Press.	Csg.	24 Hr.	Oil		Gas	Water	Gas:O	il	Wei	l Status				DECEI

FEB 17 2011

201 D	J	-1.0													
Date First	duction - Inter	Hours	Test	Oil	Gas	Water	Oli Carrier	Le		In a second					
Produced	Date	Tested	Production	BBL	MCF	BBL	Oil Gravity Corr, API		Gas Gravity	Production Method					
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	V	Well Status	Status					
28c. Proc	duction - Interv	val D													
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API		Gas Gravity						
Choke Size	Tbg. Press Flwg. Sl	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	V	Well Status	Status					
29. Dispo	osition of Gas( D	Sold, use	d for fuel, vent	ed, etc.)	,										
30. Sumr	mary of Porous	Zones (1	nclude Aquife	rs):					31. For	mation (Log) Markers					
tests,	v all important including dep ecoveries.	zones of th interva	porosity and co I tested, cushic	ontents there on used, time	eof: Cored in tool open,	ntervals an flowing an	d all drill-stem id shut-in pressi	ures							
	Formation		Тор	Bottom		Descript	ions, Contents,	ontents, etc. Name Top Meas. Dep							
WASATCH/MESAVERDE 5673 9297  32. Additional remarks (include plugging procedure):									BIF MA UTI WA CH BU	GREEN RIVER BIRDS NEST 2050 MAHOGANY 2671 UTELAND BUTTE 4748 WASATCH 4961 CHAPITA WELLS 5563 BUCK CANYON 6253 PRICE RIVER 7366					
Midd Lowe	tional Formati le Price River er Price River 9416	r 8089 ¯	, mainere												
*REV	/ISED from p	revious s	submission da	ated 1/28/2	011. See it	tem #16 (d	date complete	d).							
33, Circle	e enclosed atta	chments:								V					
	ectrical/Mecha	_				2. Geologi	-								
5. Su	indry Notice fo	or pluggin	g and cement	verification	(	6. Core Ar	nalysis		7 Other:						
34. I here	eby certify that	the foreg		onic Submi	ssion #1025	559 Verifie	orrect as determed by the BLM	Well Info	ormation Sys	records (see attached instru	ctions):				
Name	e(please print)	MICKE	NZIE GATES						ATORY ASS	SISTANT					
Signa	11/1	lElectro	hic Submission	to			- 59	02/15/20							
Title 18 I	I S.C. Section	1001 and	Title //2 II C /	Section 1	212 malsa it	t a arima fa	w any marcan la		and millerthe	to make to any department of					

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fradulent statements or representations as to any matter within its jurisdiction.